Historical Streamflow Summary

Manitoba

Sommaire chronologique de l'ecoulement

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WATER SURVEY OF CANADA. HISTORICAL
STREAMFLOW SUMMARY: MANITOBA

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DIRECTION GÉNÉR[illegible]RIEURES
DIREC[illegible] DES R[illegible]OURC[illegible] EN [illegible]UES DU [illegible]ADA
DIVIS[illegible]S REL[illegible]
OTTA[illegible]ANADA, [illegible]

Canada

Metric Commission Canada has granted use of the National Symbol for Metric Conversion. The metric usage in this text has been reviewed by the Metric Screening Office of the Canadian General Standards Board.

La Commission du système métrique Canada a autorisé l'utilisation du symbole national de conversion au système métrique. Le Service du contrôle métrique de l'Office des normes générales du Canada a revisé l'utilisation du système métrique dans cette publication.

75

1908-1983

One of the primary roles of the Water Resources Branch, Environment Canada, is to maintain a systematic hydrometric survey program across the nation. This survey involves the measurement of the flow and level of water in rivers, streams and lakes, as well as compilation, analysis and publication of the data. During 1983 the Water Resources Branch will be celebrating 75 years of dedication and service to the hydrologic community.

The history of the hydrometric survey in Canada can be traced back to 1894 when some stream measurement was done in connection with irrigation surveys. However, it was not until 1908, when Parliament made its first specific appropriation for gauging streams and determining the water supply in southern Alberta and Saskatchewan, that the Hydrographic Survey was founded. The year 1911 saw the establishment of the Dominion Water Power Branch, which consolidated the hydrometric survey program already in operation for irrigation requirements, the water power investigation under way on the Winnipeg and Bow rivers, and the administration of water power on Dominion lands. In 1913 and subsequent years, arrangements were made with the provincial governments across Canada to continue the hydrometric survey program under the Dominion Water Power Branch, while passing the administration of nearly all water resources to the provinces.

In 1975 federal-provincial agreements were established which recognized that water quantity data may be collected to meet federal needs, provincial needs, or both. According to the agreements, the operation of the networks would be provided on a shared cost basis according to each party's needs.

The Dominion Water Power Branch has undergone numerous changes of name over the 75-year period, but a systematic program for the collection and publication of hydrometric data has remained. Today the program spans the nation, with data being collected at nearly 3500 different locations. The results are made available in annual publications and more recently, in a form suitable for computers. The program is being improved constantly to ensure a continued high calibre of service to the people of Canada.

L'une des principales fonctions de la Direction des ressources en eau d'Environnement Canada consiste à gérer un programme systématique de relevés hydrométriques partout au pays. Ces relevés comprennent la mesure du débit et du niveau de l'eau dans des cours d'eau et des lacs ainsi que le rassemblement, l'analyse et la publication des données. En 1983, la Direction des ressources en eau célébrera ses 75 ans de dévoués services aux hydrologistes.

Les premiers relevés hydrométriques au Canada remontent à 1894; on effectua alors certaines mesures dans des cours d'eau pour faire des relevés se rapportant à l'irrigation. Cependant, ce n'est qu'en 1908, année où le Parlement vota pour la première fois des crédits pour jauger des cours d'eau et calculer l'approvisionnement en eau dans le sud de l'Alberta et de la Saskatchewan, que les Relevés hydrographiques furent créés. L'année 1911 vit la mise sur pied des Services des forces hydrologiques du Dominion, qui réunissaient le programme déjà en cours de relevés hydrométriques à des fins d'irrigation, l'étude de l'aménagement hydro-électrique des rivières Winnipeg et Bow, qui était en cours, et la gestion des ressources hydro-électriques des terres du Dominion. En 1913 et au cours des années qui suivirent, des ententes furent conclues avec les gouvernements provinciaux en vertu desquelles le programme de relevés hydrométriques serait poursuivi sous l'autorité des Services des forces hydrologiques du Dominion, tandis que la gestion de presque toutes les ressources en eau irait aux provinces.

En 1975, les gouvernements fédéral et provinciaux conclurent des accords stipulant que des données sur le débit des eaux pouvaient être recueillies pour répondre aux besoins du fédéral ou des administrations provinciales, les coûts étant partagés entre chaque partie en proportion de ses besoins.

Les Services des forces hydrologiques du Dominion ont changé plusieurs fois de nom depuis 75 ans, mais il y a toujours eu un programme systématique de collecte et de publication des données hydrométriques. Aujourd'hui, le programme s'étend à tout le pays, et des données sont recueillies dans presque 3500 stations différentes. Les résultats paraissent dans des publications annuelles et, depuis quelque temps, ils sont présentés de façon à être traités par informatique. Le programme est amélioré pour que les Canadiens puissent profiter constamment d'un service de haute qualité.

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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Winnipeg, Manitoba.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la supervision du Chef régional de la Direction des ressources en eau, à Winnipeg (Manitoba).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents a summary of monthly and annual mean discharges and annual extremes of discharge for rivers in Manitoba for which streamflow data to 1982 inclusive have been collected by the Water Survey of Canada. This edition supersedes all previous editions.

A program for the collection and publication of Surface Water Data has been carried on across Canada for over 75 years. The results of these hydrometric survey investigations have been published annually.

Discharge data are available on punched cards or magnetic tape for computer processing. These data and details on individual stations and related records, as well as recent data which have not yet been published may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7.

INTRODUCTION

La Direction des ressources en eau du ministère de l'Environnement présente un sommaire des moyennes mensuelles et annuelles de l'écoulement et des extrêmes annuels de cours d'eau du Manitoba, pour lesquels la Division des relevés hydrologiques du Canada a obtenu des données jusqu'en 1982 inclusivement. La présente publication annule toutes les éditions antérieures.

La cueillette et la publication de données sur les eaux de surface sont en oeuvre depuis plus de 75 années au Canada. Les données obtenues à partir des relevés hydrométriques sont publiées annuellement.

On peut se procurer les données sur l'écoulement sous forme de cartes perforées ou de rubans magnétiques pour traitement sur ordinateur. En s'adressant aux endroits ci-après, on peut obtenir ces données, des renseignements supplémentaires sur certaines stations particulières et divers relevés ainsi que des données récentes non encore publiées:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
521 Édifice fédéral
269, rue Main
Winnipeg (Manitoba)
R3C 1B2

ou au Directeur, Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0E7.

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

Hydrometric surveys in Manitoba were conducted by the Water Survey of Canada under agreement with the Province of Manitoba. The provincial authorities contributed to the cost of the basic field investigations which were carried out in accordance with mutually agreed-upon plans.

Stream-gauging work started in Manitoba when the Winnipeg River Power Survey was commenced in 1911 by the Dominion Water Power Branch. The Manitoba Hydrographic Survey was organized in early 1912 and the survey was expanded to embrace all Manitoba and the Lake of the Woods in Ontario. Following the transfer of the natural resources of Manitoba to provincial control as of October 1, 1930, a co-operative agreement was arranged with the Government of Manitoba for the continuance of the hydrometric survey by the federal government. Although this agreement was terminated in 1933, work was continued by the federal government under letter arrangement until 1975. A co-operative agreement was signed with the Government of Manitoba on February 18, 1975 and implemented on April 1, 1975. The agreement provides that water quantity surveys will be continued by the federal government on a shared cost basis.

ORGANISATION ET HISTORIQUE DES RELEVÉS HYDROMÉTRIQUES

La Division des relevés hydrologiques du Canada a effectué des relevés hydrométriques au Manitoba en vertu de l'accord conclu avec les autorités provinciales, qui ont contribué au coût des recherches de base réalisées sur le terrain, après entente mutuelle sur leur programme.

C'est en 1911, lorsque la Direction fédérale de l'énergie hydraulique a fondé le *Winnipeg River Power Survey*, que cet organisme a effectué les premières observations relatives aux cours d'eau au Manitoba. Avec la création du *Manitoba Hydrographic Survey* au début de 1912, le champ des relevés s'est élargi pour englober tout le Manitoba et le lac des Bois en Ontario. Après que la responsabilité des ressources naturelles du Manitoba est passée au gouvernement provincial, le 1er octobre 1930, le Manitoba et le gouvernement fédéral ont conclu un accord qui permettait à ce dernier de poursuivre les relevés hydrométriques. L'accord a pris fin en 1933, mais en vertu d'une lettre d'entente, le gouvernement fédéral a continué d'exécuter les observations hydrométriques jusqu'en 1975. Le 18 février 1975, le gouvernement du Manitoba a signé un nouvel accord, qui est entré en vigueur le 1er avril 1975, renfermant des dispositions grâce auxquelles le gouvernement fédéral s'occupera du programme de relevés hydrométriques et partagera le coût des mesures avec la province.

CO–OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain gauging stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to many organizations.

The names of these organizations are given in the Surface Water Data Reference Index and the annual Surface Water Data publications. The names of agencies who have contributed data for publication are identified herein under individual stations.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données portant sur l'écoulement ou sur d'autres points, et l'assistance fournie par beaucoup d'organismes a facilité les opérations de jaugeage.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage».

La Division des relevés hydrologiques du Canada est redevable à maints organismes de l'aide et de la collaboration précieuses qu'ils lui ont apportées lors de la prise des relevés hydrométriques.

On trouvera les noms des organismes dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Les noms des organismes qui ont fourni des données apparaissent dans la présente publication sous les stations particulières.

CONVERSION FACTORS

The following list of convenient equivalents of measure gives the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km² (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m² (square metres)
1 ha (hectare) equals 2.4710 acres
1 km² (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m³ (cubic metre)
1 m³ (cubic metre) equals 35.315 cubic feet

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam³ (cubic decametres)
1 m³/s (cubic metre per second) for one day equals 86.4 dam³ (cubic decametre)
1 m³/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m³/s (cubic metre per second)
1 m³/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit − 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

FACTEURS DE CONVERSION

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2.5900 km² (kilomètres carrés)
1 mille carré équivaut à 259.0 ha (hectare)

1 ha (hectare) vaut 10 000 m² (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 km² (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial équivaut à 1.2010 gallon américain
1 gallon américain équivaut à 0.133 68 pied cube
1 pied cube vaut 0.028 317 m³ (mètre cube)
1 m³ (mètre cube) vaut 35.315 pieds cubes

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam³ (décamètres cubes)
1 m³/s (mètre cube par seconde) pour un jour vaut 86.4 dam³ (décamètre cube)
1 m³/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0.028 317 m³/s (mètre cube par seconde)
1 m³/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit − 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Conversion Factors".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 280 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

The first edition of a *Surface Water Data Reference Index* was published for data to 1966 by province or region. Subsequent editions were published annually or biennially in one publication for Canada. Commencing with the 1979 publication, data are

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» — élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) — unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Facteurs de conversion».

«Station de jaugeage» — lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» — représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» — relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 280 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île du Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule région. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

La première édition de l'*Index de référence des données sur les eaux de surface* comprenait les données disponibles jusqu'en 1966, de chaque province ou région. Les éditions subséquentes étaient publiées annuellement ou tous les deux ans en une seule publication

presented in the International System of Units (SI) and published every two years. Gauging stations are listed by province or territory, in upstream to downstream order. Coloured maps showing the locations of both active and discontinued stations were included in the first and second editions and were provided in a separate Hydrometric Map Supplement to the 1972 and the 1977 editions. The latest editions of the Reference Index and the Hydrometric Map Supplement supersede all previous editions.

The first edition of a publication series titled *Historical Streamflow Summary* was produced for data to 1970. Subsequent editions have been published every three years. This publication series contains a summary of historical monthly and annual mean discharges and annual extremes for the entire period of record for all stations where streamflow data have been collected during the history of the Water Survey of Canada. Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1982 will be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a publication series titled *Historical Water Levels Summary* was produced for data to 1976. This publication series contains a summary of historical monthly and annual mean water levels and annual extremes for the period of record for all stations on lakes or reservoirs where water level data have been collected during the history of the Water Survey of Canada. It also contains a summary of water level data for all stations on rivers where "water levels only" were collected or for certain stations on rivers where streamflow data are collected, but the historical water level information is considered to be of sufficient demand to warrant inclusion in the publication (daily water levels for stations where streamflow data are collected are not normally published in the annual Surface Water Data publications). Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). The 1983 edition will be the last hard copy edition; subsequent editions will be published every two years on microfiche only. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

During the years 1948–1960, some sediment data were collected for several prairie rivers to meet the demands of particular projects and the results included in the 1961 publication. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually, the same as for the Surface Water Data publications but in one volume. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI) and will continue to be published on an annual basis.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey

pour tout le Canada. À partir de 1979, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les deux ans. Les stations de jaugeage sont présentées par province ou territoire et placées dans l'ordre de leur position, d'amont en aval. Des cartes en couleurs, qui indiquent l'emplacement des stations hydrométriques en service, y compris celles qui ne le sont plus, ont paru dans les première et deuxième éditions ainsi que dans le *Supplément de cartes hydrométriques* de 1972 et de 1977. L'édition la plus récente de l'*Index de référence* et celle du *Supplément de cartes hydrométriques* annulent les éditions antérieures.

La première édition d'une série de publications intitulée *Sommaire chronologique de l'écoulement* renfermait les données disponibles jusqu'en 1970. Les éditions subséquentes étaient publiées tous les trois ans. Cette série de publications renferme un résumé des moyennes mensuelles et annuelles des débits ainsi que les débits extrêmes annuels pour toute la période d'enregistrement et pour toutes les stations où des données de débit sont recueillies par la Division des relevés hydrologiques du Canada. Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1982 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une série de publications intitulée *Sommaire chronologique des niveaux d'eau* comprenait les données disponibles jusqu'en 1976. Cette série de publications contient un résumé des niveaux moyens mensuels et annuels ainsi que des niveaux extrêmes annuels pour la période d'enregistrement pour toutes les stations de lacs ou de réservoirs où des données sur les niveaux d'eau sont recueillies par la Division des relevés hydrologiques du Canada. Elle renferme également un résumé des niveaux d'eau pour toutes les stations de rivières effectuant «uniquement» des relevés de niveaux d'eau ou pour certaines stations de rivières où des données de débit sont recueillies de même que des données sur les niveaux d'eau qui peuvent répondre aux besoins des utilisateurs (en général, les niveaux d'eau quotidiens de stations effectuant des relevés de débit ne sont pas publiées dans les publications annuelles des données sur les eaux de surface). Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). L'édition de 1983 sera la dernière édition imprimé sur papier; les éditions suivantes seront disponibles tous les deux ans sur microfiche seulement. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

De 1948 à 1960, certaines données sur les sédiments étaient recueillies de divers cours d'eau des Prairies afin de répondre aux besoins de projets particuliers et les résultats paraissaient dans l'édition de 1961. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement, comme c'est le cas pour les données sur les eaux de surface, mais dans un seul tome. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et la publication va paraître chaque année.

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données

of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new two-year publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). Publications were not produced in 1980 or 1982, but beginning with the 1983 edition, future editions will be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

EXPLANATION OF HISTORICAL STREAMFLOW SUMMARY PUBLICATION

A. General Description

Descriptive information about a gauging station is given herein below the table of monthly and annual mean discharges. This refers to such items as latitude and longitude, drainage area and whether the flow is natural or regulated (the year that regulation began is given, if known); International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions are explained under "Remarks".

This descriptive information (except the "Remarks" statement) is also given in the Surface Water Data Reference Index and the annual Surface Water Data publications. However, these two publications contain additional information not given herein such as the type of gauge, period of record and other pertinent remarks. Historical streamflow data as contained herein are published by province or region and also in alphabetical order as in the annual Surface Water Data publications. However, the Historical Streamflow Summary publications contain data for both active and discontinued streamflow stations and do not contain any water level data. These publications will be published every two years and will contain data for all streamflow stations for the entire period of record not just the data for the intervening two years.

B. Method of Tabulation of Data

For gauging stations where systematic streamflow data have been obtained, the following are given for the period of record to 1982 inclusive:

1. Summary of monthly and annual mean discharges;
2. Annual maximum instantaneous discharges;

sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications paraissant tous les deux ans et intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI). Il n'y a pas eu de publications en 1980 ni en 1982, mais à partir de 1983, les éditions vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

EXPLICATION DU *SOMMAIRE CHRONOLOGIQUE DE L'ÉCOULEMENT*

A. Description générale

Sous ce titre on trouve les renseignements descriptifs pour une station de relevés de l'écoulement, qui sont fournis après l'extrait des moyennes mensuelles et annuelles. Il s'agit de la latitude et de la longitude; de la superficie du bassin versant; du débit reconnu comme naturel ou régularisé (on indique l'année où la régularisation a débuté, si elle est connue); des stations internationales de jaugeage et des noms des organismes ayant fourni des données ainsi que des précisions sur les conditions spéciales qui prévalaient à la station (elles figurent dans les «Remarques»).

On trouvera également ces renseignements descriptifs (sauf les «Remarques») dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Cependant, ces dernières traitent d'information additionnelles telles que du type de jauge, de la période d'enregistrement et d'autres remarques pertinentes. Les données historiques sur l'écoulement, qui sont contenues dans la présente publication, sont subdivisées en ordre alphabétique selon les provinces ou les territoires comme pour les publications annuelles des *Données sur les eaux de surface*. Par contre, le *Sommaire chronologique de l'écoulement* contient des données non seulement de stations en opération, mais aussi de stations qui ne le sont plus; aucune donnée sur le niveau des eaux n'est toutefois fournie. Cette publication paraîtra tous les deux ans et portera sur les données de toutes les stations de relevés de l'écoulement pour toute la période d'enregistrement plutôt que sur les données qui ne couvrent que les deux années.

B. Présentation sous forme de tableaux des données

Pour les stations où on a effectué un relevé systématique de l'écoulement, les données suivantes sont présentées pour la période d'enregistrement allant jusqu'en 1982 inclusivement:

1. Un extrait des moyennes mensuelles et annuelles;
2. Un tableau des valeurs annuelles maximales instantanées;

3. Annual maximum and minimum daily discharges;

4. Identification of the extreme recorded for the period of record;

5. Annual total discharge in cubic decametres.

The following standard symbols are used opposite the daily discharge to which they apply. These symbols will not appear opposite the monthly and annual mean discharges, but will appear with the annual maximum instantaneous value and the annual maximum and minimum daily values, if applicable:

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge during that particular year. A station may have several periods of recording or manual gauges throughout its history. For more details concerning the type of gauge operated during the period of record, the *Surface Water Data Reference Index* should be consulted. This symbol is used during open-water periods only.

B – Ice Conditions – indicates that the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates any estimated data. It indicates that the value was determined by some indirect method such as interpolation, extrapolation, estimation from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

R – Revised – indicates that a revision, correction or addition has been made to the historical discharge data base after January 1, 1980.

1. *The summary of monthly and annual mean discharge* gives:

(a) the monthly mean in cubic metres per second for each month for which there is a complete month of daily discharges. Records of daily discharges for partial months, if obtained, are published in annual publications or are available from the Regional Chief;

(b) the annual mean discharge in cubic metres per second if there are daily discharges for the complete year. In some cases a mean discharge is computed for a standard period within the year, say March to October. This is then computed for all the years for which there are daily discharge records from March to October, if there are also records for other months, say January to October, the mean is given for March to October only;

(c) the mean of all the monthly means;

(d) the mean of all the annual or standard period means.

3. Un tableau des valeurs quotidiennes maximale et minimale annuelles;

4. Un tableau des valeurs extrêmes enregistrées pour toute la periode d'observation;

5. Un résumé de l'écoulement annuel total en décamètres cubes.

Les symboles normalisés donnés ci-après sont inscrits à côté des débits quotidiens auxquels ils se rapportent. Les symbols ne sont fournis ni avec les débits moyens mensuels, ni avec les débits moyens annuels, mais ils paraissent avec les valeurs appropriées, c'est-à-dire la valeur instantanée maximale annuelle et les valeurs quotidiennes maximale et minimale annuelles:

A – Jauge manuelle – indique qu'on a effectué à une station de jaugeage dotée d'une jauge enregistreuse au moins une observation par jour à l'aide d'une jauge manuelle et qu'on s'en est servi comme moyenne quotidienne pour l'année en question. Toute station peut comporter diverses périodes où les relevés sont effectués soit à partir d'une jauge enregistreuse, soit à l'aide d'une jauge manuelle. Pour obtenir d'autres renseignements sur le genre de jauge qui a servi lors de la période d'observation, il faut consulter l'*Index de référence des données sur les eaux de surface*. Le symbole n'est employé qu'au cours de périodes d'eau libre.

B – Glaces – indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – Estimatives – indique une donnée estimative, c'est-à-dire qu'on a déterminé la valeur de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

R – Révisé – indique qu'il y a eu révision, correction ou addition à la base des données chronologiques des débits après le 1er janvier 1980.

1. *L'extrait des moyennes mensuelles et annuelles* (The summary of monthly and annual mean discharges) donne:

(a) la moyenne mensuelle, exprimée en mètres cubes par seconde, des valeurs quotidienne de l'écoulement pour le mois entier. Pour les stations où on n'a mesuré l'écoulement quotidien que pour une partie du mois, les données paraissent dans les publications annuelles ou peuvent être obtenues du chef régional;

(b) la moyenne annuelle, en mètres cubes par seconde, pour les stations où on a obtenu des relevés quotidiens pour une année entière. Dans certains cas, la moyenne est calculée pour une période bien définie de l'année, par exemple pour mars à octobre. On donne donc la moyenne annuelle des relevés quotidiens effectués pour cette même période de l'année. S'il existe des données pour une autre partie de l'année, telle que pour janvier à octobre, la moyenne n'est toujours fournie que pour la période bien définie de mars à octobre;

(c) la moyenne de toutes les moyennes mensuelles;

(d) la moyenne de toutes les moyennes annuelles ou de toutes les moyennes pour une période bien définie.

2. *The annual maximum instantaneous discharge* in cubic metres per second is given for each year if available. This figure is usually available if the station is equipped with a recording gauge. It may also be estimated from high water marks or from a graph of observed water level readings during the day.

3. *The annual maximum and minimum daily discharges* in cubic metres per second are given for each year where daily discharges have been obtained for the entire year (or standard period within the year, e.g. March to October), or where they are considered to be valid for the year even though some daily discharges are missing.

4. *The extreme recorded for the period of record* is identified by an asterisk within the table of annual maximum instantaneous, maximum daily and minimum daily values.

5. *The annual total discharge* in cubic decametres is given for each year where daily discharges have been obtained for the entire year. If a standard period such as March to October has been selected, the figure applies to only those months, similar to the mean discharge in cubic metres per second.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway, for example, these revisions may have been justified because a more reliable stage-discharge relationship had been developed.

Revisions to daily discharges or daily water levels are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. The Historical Water Levels Summary publications contain revisions to monthly and annual mean water levels, and annual extremes of water level. Revisions, corrections or additions made to the discharges and water levels after January 1, 1980 are indicated by an "R" symbol in the summary publications. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

2. *Le tableau des valeurs annuelles maximales instantanées* (The annual maximum instantaneous discharge) exprimées en mètres cubes par seconde, [illegible] fourni pour toute année où des données sont disponibles. La majorité des stations munies de jauges enregistreuses détiennent ces données. Elles peuvent également être évaluées à partir du niveau des hautes eaux ou d'un graphique illustrant le niveau quotidien.

3. *Le tableau des valeurs quotidiennes minimale et maximale annuelles* (The annual maximum and minimum daily discharges), exprimées en mètres cubes par seconde, donne les valeurs pour les stations où on a fait des relevés quotidiens pour une année entière ou pour une période bien définie de l'année, par exemple pour mars à octobre, ou lorsqu'on considère que les valeurs sont valables pour toute l'année même si quelques débits quotidiens ne sont pas disponibles.

4. *Le tableau des valeurs extrêmes enregistrées pour toute la période d'observation* (The extreme recorded for the period of record) est indiqué par un astérisque et est compris avec les valeurs annuelles maximales instantanées et les valeurs quotidiennes minimale et maximale annuelles.

5. *Le résumé de l'écoulement annuel total* (The annual total discharge), en décamètres cubes, est indiqué pour les stations où on a fait des relevés quotidiens pour une année entière. Si on a choisi une période bien définie de l'année, par exemple de mars à octobre, la valeur n'a trait qu'à ces mois, tout comme la moyenne mensuelle, en mètres cubes par seconde.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit qu'on est à faire en ce moment. Ainsi, on peut justifier des corrections, par le fait qu'on ait trouvé une relation hauteur-débit plus sûre.

Les corrections apportées aux débits quotidiens ou aux niveaux d'eau quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. Les publications intitulées *Sommaire chronologique des niveaux d'eau* renferment les révisions apportées aux niveaux moyens mensuels et annuels ainsi que les extrêmes annuels. Les révisions et corrections apportées aux débits et aux niveaux d'eau après le 1er janvier 1980 sont accompagnées du symbole «R» dans les publications sommaires. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ACCURACY OF HYDROMETRIC DATA

The overall accuracy or the degree of reliability of hydrometric data referred to herein, depends upon (1) the stability of the stage-discharge relationship; or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge and interpretation of records. Because of all the variable factors mentioned above, the number of significant figures used herein has been standardized for uniformity of presentation and does not reflect the degree of accuracy of the data.

A measure of the reliability of the daily records can be made by an examination of the distribution of the symbols A, B and E in the annual Surface Water Data publications.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

EXACTITUDE DES DONNÉES HYDROMÉTRIQUES

La précision totale ou le degré d'exactitude des données hydrométriques dont on parle ici sont basés sur (1) la stabilité de la relation hauteur-débit ou, si l'élément régulateur est changeant, sur la fréquence des mesures de débits, et (2) sur la précision des observations sur les niveaux, des mesures de débits et de l'interprétation des relevés. À cause de toutes les variables déjà mentionnées, on a normalisé pour des fins d'uniformité de présentation le nombre de chiffres significatifs, mais ceci ne réflète pas le degré d'exactitude des données.

L'exactitude des données quotidiennes peut être appréciée par l'examen de la répartition des symboles A, B et E dans les publications annuelles des *Données sur les eaux de surface*.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours d'eau à crues très rapides.

MICROFICHE

All published daily discharge, water level and sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by Region, therefore data for a particular province may include fiche from two or more Regions. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, Region, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

MICROFICHE

Toutes les données publiées concernant les débits quotidiens, les niveaux d'eau et les sédiments sont disponibles sur microfiche en unités métriques aux usagers qui en font la demande. Ces données sont emmagasinées par ordre de numéro de station et par région. Les données relatives à une province en particulier peuvent donc inclure des fiches en provenance de deux régions ou plus. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la région, le numéro de la première et de la dernière station, celui de la première et de la dernière année de cueillette ainsi que le mois et l'année de préparation de la fiche. La dernière image donne l'index du contenu de la fiche.

STREAMFLOW DATA/DONNÉES SUR L'ÉCOULEMENT

ANGLING RIVER NEAR BIRD - STATION NO. 05UH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	0.839	0.655	0.508	0.503	17.3	32.9	24.3	13.2	10.8	15.8	7.36	3.67	10.7	1979
1980	1.25	0.828	0.842	17.7	29.2	24.0	32.4	27.7	30.3	18.5	6.28	3.21	16.1	1980
1981	1.88	1.16	0.733	0.668	46.3	30.0	12.6	16.3	5.98	19.0	6.98	2.80	12.2	1981
1982	1.32	0.935	0.781	0.804	45.4	15.5	7.07	8.85	10.6	14.4	5.90	3.18	9.65	1982
MEAN	1.32	0.895	0.716	4.92	34.6	25.6	19.1	16.5	14.4	17.0	6.63	3.22	12.2	MEAN

LOCATION - LAT 56 40 39 N DRAINAGE AREA, 1 630 km²
LONG 93 38 20 W NATURAL FLOW

ANGLING RIVER NEAR BIRD - STATION NO. 05UH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	48.5 ON JUN 4	0.400B ON APR 13 *	337 000	1979
1980	89.4 AT 22:34 CST ON APR 25 *	68.5 ON APR 25	0.800B ON FEB 13	508 000	1980
1981	---	116 B ON MAY 21 *	0.655B ON MAY 12	384 000	1981
1982	---	89.5B ON MAY 8	0.712B ON APR 24	305 000	1982
MEAN				384 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	0.001	---	---	---	1935
1936	---	---	---	---	0.323	0.038	---	---	---	---	---	---	---	1936
1938	---	---	---	0.029	0.002	---	---	---	---	---	---	---	---	1938
1943	---	---	0	11.3	0.917	1.49	0.464	0.061	0.022	0.008	---	---	---	1943
1944	---	---	0	0.259	0.137	0.629	1.37	0.259	0.104	0.019	---	---	---	1944
1945	---	---	0.325	0.534	0.132	0.181	0.374	0.058	0.002	0	---	---	---	1945
1946	---	---	2.45	6.46	0.323	0.106	0.047	0.001	0	0	---	---	---	1946
1947	---	---	0	7.20	0.619	3.36	3.63	0.275	0.033	0.005	---	---	---	1947
1948	---	---	0	11.6	8.23	0.698	0.522	0.488	0.054	0.013	---	---	---	1948
1949	---	---	0	9.93	0.815	3.58	0.266	0.135	0.011	0.017	0.023	---	---	1949
1950	---	---	0.631	7.18	3.50	1.54	1.53	3.37	0.539	0.731	---	---	---	1950
1951	---	---	0	12.4	10.0	1.17	0.272	0.334	0.110	0.047	---	---	---	1951
1952	---	---	0.022	3.15	0.124	0.010	0.058	0	0	0.003	---	---	---	1952
1953	---	---	0.015	2.84	0.389	2.21	0.876	0.056	0	0.099	0.286	---	---	1953
1954	---	---	0	0.400	0.275	4.54	3.91	0.286	0.327	0.552	0.650	---	---	1954
1955	---	---	0	15.6	8.03	2.69	1.47	0.278	0.102	0.131	---	---	---	1955
1956	---	---	0.002	11.5	2.40	0.467	0.218	0.020	0	0.005	---	---	---	1956
1957	---	---	0.609	1.63	0.351	0.225	0.004	0	0	0	---	---	---	1957
1958	---	---	0.695	4.68	0.232	0	0	0	0	0	---	---	---	1958
1959	---	---	0.370	0.177	0.019	0.001	0	0	0	0.002	---	---	---	1959
1960	---	---	0.016	5.99	0.227	0.070	0.001	0	0	0	---	---	---	1960
1961	---	---	0.005	0.002	0.003	0	0	0	0	0	---	---	---	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	---	1962
1963	---	---	0	0	0	0.768	0.048	0.147	0.621	0.055	---	---	---	1963
1964	---	---	0	4.10	2.18	0.369	0.168	0.027	0.004	0.003	---	---	---	1964
1965	---	---	0	1.75	0.676	0.403	0.066	0.011	0.007	0.030	---	---	---	1965
1966	---	---	1.29	3.00	1.52	0.345	0.121	0.006	0	0	---	---	---	1966
1967	---	---	0.010	0.364	0.250	0.048	0.003	0	0	0	---	---	---	1967
1968	---	---	0.203	0.183	0.011	0	0.012	0.015	0.006	0	---	---	---	1968
1969	---	---	0	29.7	2.18	0.592	2.59	0.551	0.035	0.091	---	---	---	1969
1970	---	---	0.045	5.06	9.86	1.04	0.292	0.181	0.014	0.126	---	---	---	1970
1971	---	---	0.010	1.63	0.445	1.17	0.391	0.006	0.001	0.006	---	---	---	1971
1972	---	---	6.88	4.11	0.743	0.935	0.324	0.200	0.048	0.011	---	---	---	1972
1973	---	---	0.467	0.246	0.198	0.474	0.061	0.003	0	0.001	---	---	---	1973
1974	---	---	0	20.2	5.68	1.94	0.448	0.086	0.002	0.004	---	---	---	1974
1975	---	---	0.006	9.14	14.4	4.23	0.973	0.525	1.55	2.75	---	---	---	1975
1976	---	---	0.293	63.3	5.65	1.76	0.612	0.123	0.010	0.012	---	---	---	1976
1977	---	---	0.014	0.089	0.132	0.010	0	0	0	0	0	0	---	1977
1978	0	0	0.002	1.06	0.101	0	0	0	0	0	0	0	0.096	1978
1979	0	0	0	7.39	2.64	0.414	0.086	0.035	0.007	0	0	0	0.877	1979
1980	0	0	0	0.084	0.069	0	0	0	0	0	0	0	0.013	1980
1981	0	0.228	0.352	0.023	0.001	0	0	0	0	0	0	0	0.049	1981
1982	0	0	0	5.23	0.734	0.204	0.117	0.001	0	0	0	0	0.519	1982
MEAN	0	0.046	0.368	6.57	2.01	0.920	0.533	0.188	0.090	0.115	0.107	0	0.311	MEAN

LOCATION - LAT 49 03 34 N DRAINAGE AREA, 3 210 km²
LONG 101 02 56 W NATURAL FLOW

REMARKS - MONTHLY MEAN NATURAL FLOWS FOR THE PERIOD 1912-77 HAVE BEEN COMPUTED BY THE PRAIRIE PROVINCES WATER BOARD

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1935	---	---	0 ON SEP 26 *	---	1935
1936	---	---	---	---	1936
1938	---	---	0 ON MAY 15	---	1938
1943	---	47.3 ON APR 9	0B ON MAR 1	---	1943
1944	---	4.56 ON JUL 2	0B ON MAR 1	---	1944
1945	---	3.23 B ON MAR 29	0B ON MAR 1	---	1945
1946	---	41.3 B ON MAR 31	0B ON MAR 1	---	1946
1947	---	29.7 ON JUN 29	0B ON MAR 1	---	1947
1948	---	73.9 ON APR 26	0B ON MAR 1	---	1948
1949	---	59.5 ON APR 14	0B ON MAR 1	---	1949
1950	---	15.7 B ON APR 21	0B ON MAR 1	---	1950
1951	---	34.5 ON APR 14	0B ON MAR 1	---	1951
1952	---	8.58 B ON APR 5	0B ON MAR 1	---	1952
1953	---	9.97 B ON APR 7	0B ON MAR 1	---	1953
1954	---	12.0 ON JUN 21	0B ON MAR 1	---	1954
1955	---	58.9 ON APR 9	0B ON MAR 1	---	1955
1956	---	30.6 ON APR 15	0B ON MAR 1	---	1956
1957	---	6.71 B ON MAR 30	0B ON MAR 1	---	1957
1958	---	17.7 ON APR 4	0B ON MAR 1	---	1958
1959	---	2.07 ON MAR 30	0B ON MAR 1	---	1959
1960	---	21.5 ON APR 7	0B ON MAR 1	---	1960
1961	---	0.028 ON MAR 20	0 ON MAR 1	---	1961
1962	---	0 ON MAR 1	0 ON MAR 1	---	1962
1963	---	2.65 ON JUN 9	0 ON MAR 1	---	1963
1964	---	9.91 B ON APR 8	0B ON MAR 1	---	1964
1965	---	6.68 B ON APR 17	0B ON MAR 1	---	1965
1966	---	8.64 B ON APR 6	0B ON MAR 1	---	1966
1967	---	0.708 ON APR 21	0B ON MAR 1	---	1967
1968	---	0.878B ON APR 3	0B ON MAR 1	---	1968
1969	---	106 ON APR 17	0B ON MAR 1	---	1969
1970	---	27.2 ON MAY 5	0B ON MAR 1	---	1970
1971	---	4.53 B ON APR 13	0 ON AUG 22	---	1971
1972	---	22.7 B ON MAR 26	0B ON MAR 1	---	1972
1973	---	1.27 B ON MAR 25	0B ON MAR 1	---	1973
1974	---	73.6 B ON APR 20	0B ON MAR 1	---	1974
1975	62.3 AT 18:55 CST ON MAY 3	61.7 ON MAY 3	---	---	1975
1976	119 AT 08:27 CST ON APR 14 *	118 ON APR 14 *	0 ON AUG 30	---	1976
1977	---	0.215 ON MAY 17	0B ON MAR 1	---	1977
1978	---	3.71 B ON APR 4	0B ON JAN 1	3 030	1978
1979	42.4 AT 01:28 CST ON APR 25	39.8 ON APR 25	0B ON JAN 1	27 700	1979
1980	0.553 AT 17:56 CST ON APR 18	0.396 ON APR 18	0B ON JAN 1	402	1980
1981	---	2.96 B ON FEB 27	0B ON JAN 1	1 560	1981
1982	28.1 AT 05:32 CST ON APR 18	26.9 ON APR 18	0B ON JAN 1	16 400	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		9 820	MEAN

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05MG001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.389	0.132	0.052	0.014	0	0	0	0.059	---	---	0.081	1959
1960	---	---	0	2.02	0.190	0.141	0	0	0	0	---	---	0.288	1960
1961	---	---	0.044	0.120	0.067	0.010	0	0	0	0	---	---	0.030	1961
1962	---	---	0	0.596	0.056	0.032	0	0.085	0.006	0.052	---	---	0.102	1962
1963	---	---	0.866	0.635	0.099	0.173	0.016	0.013	0.015	0.012	---	---	0.228	1963
1964	---	---	0	1.93	0.274	0.030	0.038	0.005	0.004	0.029	---	---	0.284	1964
1965	---	---	0	1.52	0.133	0.066	0.005	0	0.137	0.043	---	---	0.234	1965
1966	---	---	0.200	0.614	0.300	0.045	0.005	0.031	0.001	0.013	---	---	0.150	1966
1967	---	---	0.012	3.21	0.847	0.030	0	0	0	0.005	---	---	0.506	1967
1968	---	---	0.814	0.531	0.057	0.010	0.037	0.034	0.027	0.067	---	---	0.197	1968
1969	---	---	0	5.41	0.249	0.046	0.132	0.002	0.013	0.052	---	---	0.725	1969
1970	---	---	0	1.60	0.868	0.096	0.007	0	0.071	0.078	---	---	0.336	1970
1971	---	---	0.007	0.688	0.098	0.680	0.442	0.010	0.010	0.124	---	---	0.255	1971
1972	---	---	0.603	2.37	0.455	0.033	0.001	0.010	0	0.013	---	---	0.432	1972
1973	---	---	0.133	0.062	0.051	0.028	0.022	0.006	0.025	0.054	---	---	0.048	1973
1974	---	---	0	4.09	0.836	0.065	0.006	0	0.002	0.004	---	---	0.615	1974
1975	---	---	0	1.65	0.883	0.332	0.033	0.067	0.198	0.146	---	---	0.410	1975
1976	---	---	0	5.71	0.478	0.119	0.025	0	0.002	0.040	---	---	0.782	1976
1977	---	---	0.067	0.228	0.134	0.134	0.040	0	0.009	0.028	---	---	0.080	1977
1978	---	---	0.144	0.656	0.152	0.064	0.147	0.004	0.022	0.040	---	---	0.152	1978
1979	---	---	0.003	3.16	1.60	0.155	0.006	0	0	0	---	---	0.610	1979
1980	---	---	0.010	0.418	0.013	0	0.026	0.068	0.021	0.058	---	---	0.076	1980
1981	---	0.221	0.047	0.065	0.066	0.072	0.011	0.011	0.045	0.069	---	---	0.048	1981
1982	---	---	0.447	1.82	0.111	0.077	0.048	0	0.001	0.067	---	---	0.318	1982
MEAN	---	0.221	0.158	1.63	0.336	0.102	0.044	0.014	0.025	0.044	---	---	0.291	MEAN

LOCATION - LAT 50 05 10 N DRAINAGE AREA, 671 km^2
LONG 100 57 30 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM DAILY DISCHARGE OF 0.712 m^3/s OCCURRED IN FEB

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05NG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.46 B ON MAR 21	0B ON MAR 1 *	1 720	1959
1960	---	6.17 ON APR 14	0B ON MAR 1	6 100	1960
1961	---	0.425B ON MAR 29	0B ON MAR 1	632	1961
1962	---	2.66 ON APR 18	0B ON MAR 1	2 160	1962
1963	---	5.15 B ON MAR 27	0B ON MAR 1	4 830	1963
1964	---	6.20 ON APR 15	0B ON MAR 1	6 010	1964
1965	---	8.41 B ON APR 13	0B ON MAR 1	4 980	1965
1966	---	1.81 B ON APR 1	0B ON MAR 1	3 180	1966
1967	---	7.22 B ON APR 12	0B ON MAR 1	10 700	1967
1968	---	5.52 B ON MAR 27	0B ON MAR 1	4 180	1968
1969	---	30.0 ON APR 11 *	0B ON MAR 1	15 300	1969
1970	---	4.93 B ON APR 10	0B ON MAR 1	7 110	1970
1971	---	2.70 B ON APR 7	0 ON MAR 1	5 380	1971
1972	---	4.25 ON APR 12	0B ON MAR 1	9 130	1972
1973	---	0.436B ON MAR 18	0B ON MAR 1	1 010	1973
1974	16.7 AT 15:00 CST ON APR 18 *	14.3 ON APR 18	0B ON MAR 1	13 000	1974
1975	6.06 AT 00:05 CST ON APR 29	5.49 ON APR 29	0B ON MAR 1	8 670	1975
1976	---	17.6 B ON APR 10	0B ON MAR 1	16 600	1976
1977	1.35B AT 16:11 CST ON APR 3	0.883 ON MAY 19	0B ON MAR 1	1 690	1977
1978	2.50B AT 13:46 CST ON APR 1	1.76 B ON MAR 31	0B ON MAR 1	3 230	1978
1979	---	19.3 B ON APR 21	0 ON JUL 9	12 900	1979
1980	---	1.57 B ON APR 3	0B ON MAR 1	1 600	1980
1981	---	0.248 ON SEP 1	0 ON JUL 11	1 010	1981
1982	---	6.13 B ON APR 11	0B ON MAR 1	6 730	1982
				6 160	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ARROW RIVER NEAR KELLOE - STATION NO. 05NG009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1966
1967	---	---	0	0.010	0	0	0	0	0	0	---	---	0.001	1967
1968	---	---	0.004	0	0	0	0	0	0	0	---	---	0.001	1968
1969	---	---	0	0.006	0	0	0	0	0	0	---	---	0.001	1969
1970	---	---	0	0.006	0.001	0	0	0	0	0	---	---	0.001	1970
1971	---	---	0	0.009	0	0	0	0	0	0	---	---	0.001	1971
1972	---	---	0	0.023	0.012	0	0	0	0	0	---	---	0.004	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.024	0.002	0	0	0	0	0	---	---	0.003	1974
1975	---	---	0	0.005	0	0	0	0	0	0	---	---	0.001	1975
MEAN	---	---	0.001	0.008	0.002	0	0	0	0	0	---	---	0.001	MEAN

LOCATION - LAT 50 25 05 N DRAINAGE AREA, 3.37 km^2
LONG 100 49 02 W NATURAL FLOW

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

ARROW RIVER NEAR KELLOE - STATION NO. 05NG009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	0.010B ON MAR 30	0B ON MAR 1 *	4.06	1966
1967	---	0.085B ON APR 14	0B ON MAR 1	26.9	1967
1968	---	0.051B ON MAR 28	0B ON MAR 1	12.7	1968
1969	---	0.040B ON APR 9	0B ON MAR 1	14.5	1969
1970	---	0.022B ON APR 13	0B ON MAR 1	16.0	1970
1971	---	0.082B ON APR 7	0B ON MAR 1	22.9	1971
1972	---	0.076 ON APR 24	0B ON MAR 1	92.7	1972
1973	---	0 B ON MAR 1	0B ON MAR 1	0	1973
1974	---	0.354B ON APR 17 *	0B ON MAR 1	65.4	1974
1975	---	0.048B ON APR 14	0B ON MAR 1	14.7	1975
				27.0	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER AT BRANDON - STATION NO. 05MH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1906	---	---	---	14.2	14.7	21.4	17.7	5.46	22.8	20.8	14.2	---	---	1906
1907	---	---	---	84.9	123	139	123	80.0	90.8	76.0	51.0	---	---	1907
1908	---	---	---	85.1	105	58.5	93.3	38.0	27.9	32.1	28.4	---	---	1908
1909	---	---	---	85.0	107	48.6	49.5	75.6	34.3	28.9	22.7	---	---	1909
1910	---	---	---	56.7	34.8	62.7	66.1	26.7	19.4	15.3	14.2	---	---	1910
1911	---	---	---	42.5	58.5	84.7	53.3	30.7	27.2	38.6	19.8	---	---	1911
1912	---	---	---	99.1	182	130	60.5	48.2	87.7	101	52.2	28.9	---	1912
1913	12.0 R	10.8 R	11.4 R	178 R	288	99.1	116	102	45.7	29.3	19.8	11.9	77.4 R	1913
1914	6.45 R	5.51 R	11.1 R	61.7 R	152	68.1	21.9	7.94	5.34	6.64	7.09	4.91	30.0 R	1914
1915	1.88 R	2.57 R	3.42R	27.2 R	16.4	13.0	16.0	10.1	6.97	6.46R	5.74R	4.39 R	9.49R	1915
1916	2.88 R	2.59 R	2.58R	119 R	72.1	98.5	90.3	24.6	13.8	17.0	18.4 R	10.3 R	39.0 R	1916
1917	4.88	3.96	4.41	53.3	172	72.2	62.4	20.1	11.1	7.47	7.93	4.53	35.6	1917
1918	2.27	2.59	6.47	51.7 R	28.6 R	29.2 R	22.8 R	10.6	9.68	8.21	7.00	4.06	15.3 R	1918
1919	3.40	2.87	2.51	83.1	34.6	17.3	32.2	9.09	8.17	9.72	6.23	4.06	17.8	1919
1920	4.25	4.28	6.06	57.3	195	70.0	22.1	12.3	6.98	6.90	11.5	6.60	33.7	1920
1921	4.24	3.36	4.38	104	124	89.5	104	41.9	26.5	50.8	56.4	24.6	53.1	1921
1922	12.2	7.28	10.4	130	432	228	66.8	31.9	21.9	16.1	17.2	10.9	82.5	1922
1923	7.27	6.19	6.03	126	412	122	128	75.4	35.5	27.3	22.3	16.1	82.7	1923
1924	8.93	8.35	8.95	62.6	95.2	50.3	38.6	22.5	15.7	19.7	15.5	9.64	29.7	1924
1925	5.99 R	5.05	22.0	231	137	86.3	57.6	18.5	11.7	13.0	9.59	6.46	50.4 R	1925
1926	3.62	2.88	6.08	55.0	41.0	27.0	15.1	7.73	13.9	19.5	14.2	9.81	18.0	1926
1927	5.93	4.64	7.06	140	369	158	86.9	49.9	37.3	40.6	21.8	11.3	78.1	1927
1928	8.89	7.08	19.8	148	101	82.3	87.9	28.9	14.8	12.8	12.9	4.84	44.1	1928
1929	3.78	4.13	6.41	37.3	45.6	28.1	13.6	6.22	4.78	5.20	5.47	4.58	13.8	1929
1930	2.81	2.38	4.19	57.9	37.4	21.4	15.2	5.37	2.84	4.40	3.45	2.42	13.3	1930
1931	2.37	2.29	5.03	19.3	10.8	7.38	5.88	4.18	4.03	4.39	3.68	1.98	5.95	1931
1932	1.53	1.70	2.32	37.4	25.1	10.6	10.7	5.32	4.95	5.48	5.38	3.74	9.50	1932
1933	2.97	2.72	3.17	76.7	40.2	48.8	24.9	6.02	4.81	5.68	5.66	4.25	18.8	1933
1934	3.97	3.40	17.0	76.5	48.8	18.4	8.96	2.87	3.10	4.12	4.23	2.63	16.1	1934
1935	2.17	2.45	4.00	35.9	23.7	27.2	95.5	21.3	11.7	9.97	6.45	4.98	20.5	1935
1936	3.96	2.76	2.43	150	122	40.7	19.9	7.32	4.27	4.63	3.86	2.70	30.3	1936
1937	1.93	1.73	2.39	20.8	20.8	17.3	5.28	2.21	1.44	3.60	3.03	0.861	6.77	1937
1938	1.42	1.79	20.9	56.3	27.5	13.0	8.08	5.71	3.20	3.46	3.07	2.31	12.2	1938
1939	2.09	1.75	8.73	31.4	18.4	9.91	10.6	5.47	3.09	3.47	3.88	2.83	8.48	1939
1940	0.829	0.653	1.03	7.87	11.0	6.39	3.96	3.09	2.13	2.57	3.03	1.96	3.70	1940
1941	2.06	2.08	2.13	41.6	22.1	11.0	3.85	2.13	3.86	3.62	3.51	2.30	8.33	1941
1942	1.11	0.605	11.5	112	36.8	33.3	17.3	18.5	21.5	13.4	6.66	2.43	22.9	1942
1943	3.06	1.82	3.59	141	91.7	81.5	37.5	14.7	9.68	7.46	6.84	4.06	33.6	1943
1944	1.29	1.56	1.89	16.9	17.2	29.2	42.5	11.0	9.04	8.41	6.65	3.00	12.4	1944
1945	1.12	1.99	10.2	51.1	42.4	25.8	24.2	10.2	6.00	7.74	6.70	2.70	15.9	1945
1946	1.79	1.96	19.0	119	36.1	14.7	35.5	9.29	4.81	13.3	13.6	4.50	22.8	1946
1947	2.18	2.38	2.82	106	176	82.7	192	29.9	17.4	17.4	11.3	8.49	54.5	1947
1948	6.99	5.77	5.34	76.9	349	105	50.5	36.7	13.1	9.74	9.12	6.05	56.5	1948
1949	3.97	1.07	1.59	76.8	23.9	54.7	18.4	15.5	7.07	6.96	9.40	4.60	18.6	1949
1950	2.97	2.88	5.51	64.0	101	63.4	74.4	44.2	15.0	15.5	13.7	6.83	34.3	1950
1951	5.33	4.36	4.84	123	132	43.3	25.7	12.4	15.7	23.0	17.9	7.44	34.6	1951
1952	3.70	3.29	4.27	82.8	53.6	24.4	14.9	6.84	17.0	8.63	5.93	3.89	19.0	1952
1953	2.79	3.21	3.77	105	81.8	112	115	79.7	37.0	24.3	25.6	12.7	50.4	1953
1954	8.72	7.22	9.65	66.6	135	165	262	87.9	48.7	72.8	46.5	31.1	79.0	1954
1955	16.6	16.8	13.7	236	371	241	119	61.6	35.1	30.7	25.0	18.1	99.0	1955
1956	13.2	12.5	13.6	120	369	262	142	57.3	35.4	21.7	21.2	13.6	90.3	1956
1957	10.9	7.29	21.1	115	209	58.6	25.4	13.0	9.77	10.6	12.2	6.24	41.7	1957
1958	4.20	4.67	11.0	59.4	24.6	10.9	8.15	3.55	3.42	5.81	5.76	2.66	12.0	1958
1959	1.54	1.45	7.39	40.5	23.9	13.9	14.6	4.96	4.38	7.51	8.33	7.30	11.3	1959
1960	5.43	4.57	3.83	132	115	60.8	24.2	6.72	3.42	3.11	3.47	2.42	30.3	1960
1961	2.86	1.85	3.57	16.3	10.7	4.09	1.87	0.929	1.22	1.91	2.00	1.18	4.04	1961
1962	1.34	1.26	2.29	33.7	40.3	10.8	5.10	6.33	3.34	4.53	4.18	2.06	9.64	1962
1963	1.66	1.15	12.7	48.1	20.7	39.9	18.3	9.66	6.45	6.09	4.47	3.28	14.4	1963
1964	2.93	3.47	4.97	56.6	55.1	15.1	7.46	4.22	3.77	4.07	4.67	2.65	13.7	1964
1965	2.99	3.96	4.15	103	67.4	51.6	30.0	12.3	15.2	15.2	7.32	8.89	26.8	1965
1966	7.90	6.56	7.27	97.0	112	38.8	27.9	13.4	6.61	4.58	3.92	3.68	27.5	1966
1967	5.18	5.71	5.82	69.9	123	42.1	10.1	4.11	2.19	4.01	6.34	5.56	23.7	1967
1968	4.50	4.77	13.0	61.5	20.0	10.6	6.29	10.6	8.13	5.15	4.55	3.17	12.6	1968
1969	3.59	4.80	4.68	170	79.8	36.8	48.5	16.5	8.33	11.9	13.1	13.1	34.3	1969
1970	10.9	11.2	12.1	77.6	180	74.3	49.9	28.5	13.9	14.7	21.7	14.1	42.6	1970
1971	12.0	11.0	12.6	62.0	65.7	77.4	46.9	22.5	8.40	19.5	26.6	21.9	32.3	1971
1972	21.2	21.0	36.0	120	131	67.8	16.7	6.29	6.83	10.0	14.2	17.7	39.0	1972
1973	18.3	14.0	14.7	14.1	9.28	11.2	9.69	5.57	9.14	17.5	14.5	13.5	12.6	1973
MEAN	5.20 R	4.69 R	8.21R	81.1 R	104 R	59.9 R	46.8 R	22.4	15.5	16.1 R	13.1 R	7.57 R	31.1	MEAN

LOCATION - LAT 49 51 02 N DRAINAGE AREA, 86 000 km²
LONG 99 56 12 W REGULATED

R - REVISED SINCE JAN 1980

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1906	---	37.4 ON SEP 29	---	---	1906
1907	---	212 ON MAY 2	---	---	1907
1908	---	159 ON JUL 1	---	---	1908
1909	---	119 ON MAY 13	---	---	1909
1910	---	103 ON JUL 5	---	---	1910
1911	---	105 ON JUN 8	---	---	1911
1912	---	202 ON MAY 21	---	---	1912
1913	---	422 ON MAY 1	10.8 RB ON FEB 6	2 440 000R	1913
1914	---	166 ON MAY 30	3.00 B ON DEC 30	947 000R	1914
1915	---	69.7 ON APR 18	1.05 RB ON JAN 13	299 000R	1915
1916	---	259 ON APR 19	1.95 RB ON JAN 9	1 230 000R	1916
1917	---	184 ON MAY 25	2.55 B ON DEC 26	1 120 000	1917
1918	---	76.7 ON APR 7	1.98 B ON JAN 29	481 000R	1918
1919	---	151 B ON APR 15	2.41 B ON MAR 17	561 000	1919
1920	---	217 ON MAY 19	3.37 B ON JAN 1	1 070 000	1920
1921	---	146 ON APR 27	3.06 B ON FEB 25	1 670 000	1921
1922	---	603 ON MAY 6	6.80 B ON MAR 11	2 600 000	1922
1923	---	651 ON MAY 7 *	5.15 B ON FEB 16	2 610 000	1923
1924	---	134 ON MAY 1	7.42 B ON DEC 31	939 000	1924
1925	---	258 ON APR 5	4.81 B ON DEC 31	1 590 000R	1925
1926	---	112 ON APR 26	2.83 B ON JAN 31	569 000	1926
1927	---	484 ON MAY 5	4.50 B ON FEB 21	2 460 000	1927
1928	---	229 ON APR 13	3.96 B ON DEC 30	1 390 000	1928
1929	---	116 ON MAY 1	3.54 B ON DEC 31	435 000	1929
1930	---	98.5 ON APR 16	1.98 B ON FEB 8	419 000	1930
1931	---	39.4 ON APR 17	1.70 B ON FEB 12	188 000	1931
1932	---	75.0 ON APR 18	1.53 B ON JAN 1	300 000	1932
1933	---	98.5 ON APR 11	2.72 B ON FEB 1	593 000	1933
1934	---	116 ON APR 14	2.29 B ON DEC 31	507 000	1934
1935	---	165 ON JUL 3	1.87 B ON FEB 4	648 000	1935
1936	---	303 B ON APR 15	2.21 B ON DEC 31	958 000	1936
1937	---	49.3 ON APR 22	0.680B ON DEC 20	214 000	1937
1938	---	70.8 ON MAR 28	0.991B ON JAN 1	386 000	1938
1939	---	47.3 ON APR 26	1.50 B ON MAR 3	268 000	1939
1940	---	23.4 ON APR 25	0.470B ON FEB 4	117 000	1940
1941	---	94.3 ON APR 18	1.56 B ON FEB 27	263 000	1941
1942	---	174 B ON APR 9	0.198B ON FEB 21 *	721 000	1942
1943	---	187 ON APR 20	1.30 B ON MAR 6	1 060 000	1943
1944	---	73.6 ON JUL 8	0.963B ON JAN 15	392 000	1944
1945	---	88.3 ON APR 7	0.850B ON JAN 8	501 000	1945
1946	---	210 ON APR 9	1.25 B ON JAN 6	718 000	1946
1947	---	314 ON JUL 6	1.98 B ON JAN 4	1 720 000	1947
1948	---	450 ON MAY 7	4.64 B ON FEB 29	1 780 000	1948
1949	---	145 ON APR 14	0.793B ON FEB 16	587 000	1949
1950	---	157 ON JUL 16	2.52 B ON JAN 31	1 080 000	1950
1951	---	214 ON APR 15	3.57 B ON DEC 31	1 090 000	1951
1952	---	134 B ON APR 16	1.70 ON NOV 21	603 000	1952
1953	---	165 ON JUN 4	2.46 B ON JAN 15	1 590 000	1953
1954	---	360 ON JUL 9	6.37 B ON FEB 11	2 490 000	1954
1955	---	541 ON MAY 20	11.8 B ON MAR 17	3 120 000	1955
1956	---	430 ON MAY 18	11.3 B ON DEC 23	2 860 000	1956
1957	---	243 ON MAY 5	4.67 B ON DEC 29	1 320 000	1957
1958	---	135 B ON APR 6	1.30 B ON DEC 21	378 000	1958
1959	---	89.5 ON APR 15	0.963B ON JAN 20	357 000	1959
1960	245 B AT 18:00 CST ON APR 15	241 ON APR 16	2.27 B ON DEC 18	960 000	1960
1961	---	22.1B ON APR 11	0.595 ON AUG 22	127 000	1961
1962	---	84.7 ON APR 28	1.05 B ON JAN 27	304 000	1962
1963	90.6 AT 14:00 CST ON JUN 13	89.8 ON JUN 13	0.799B ON FEB 7	453 000	1963
1964	153 AT 19:00 CST ON APR 17	133 ON APR 18	1.76 A ON AUG 25	434 000	1964
1965	200 AT 06:00 CST ON APR 20	199 ON APR 20	2.58 B ON JAN 16	847 000	1965
1966	154 AT 12:00 CST ON MAY 6	154 ON MAY 6	2.65 B ON NOV 30	868 000	1966
1967	---	159 ON APR 21	1.80 ON SEP 9	748 000	1967
1968	---	81.0 ON APR 12	2.44 B ON DEC 31	399 000	1968
1969	362 AT 07:49 CST ON APR 17 *	360 ON APR 17	2.28 B ON JAN 2	1 080 000	1969
1970	223 AT 23:38 CST ON MAY 15	222 ON MAY 16	10.1 ON SEP 17	1 340 000	1970
1971	165 AT 09:21 CST ON APR 18	142 ON APR 18	6.26 ON SEP 25	1 020 000	1971
1972	223 AT 08:00 CST ON APR 20	221 ON APR 20	5.13 ON SEP 6	1 230 000	1972
1973	---	24.5B ON APR 5	4.02 ON AUG 20	398 000	1973
				981 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	14.2	11.3	11.3	147	318	130	108	113	57.3	33.2	---	14.2	---	1913
1914	10.0	9.01	9.20	96.2	173	93.7	35.1	16.2	12.2	11.6	8.50	5.51	40.1	1914
1915	3.45	3.97	5.94	30.2	23.9	17.9	18.9	15.4	10.8	12.4	9.91	4.53	13.1	1915
1916	6.42	6.18	6.44	202	189	143	112	41.7	22.3	23.5	21.5	12.2	65.6	1916
1917	6.61	5.96	6.91	69.0	206	113	74.3	32.8	19.1	15.6	16.2	8.13	48.0	1917
1918	3.14	3.25	9.52	72.0	40.1	38.1	26.5	17.7	17.5	12.6	11.8	7.85	21.7	1918
1919	6.58	5.90	6.04	113	80.5	36.8	38.8	17.6	14.6	15.1	10.7	6.55	29.3	1919
1920	5.29	4.86	8.13	86.2	240	115	39.6	22.5	13.7	12.1	13.6	7.45	47.5	1920
1921	5.21	3.75	5.13	113	148	93.2	117	59.5	35.5	56.5	58.7	30.7	60.8	1921
1922	16.8	8.88	17.7	162	412	278	90.6	46.9	32.2	27.5	26.7	16.6	95.0	1922
1923	13.3	11.7	10.6	154	478	203	148	105	50.6	39.6	32.1	27.5	107	1923
1924	12.4	11.6	14.5	82.6	134	62.3	61.3	32.7	25.8	28.4	22.4	15.1	42.0	1924
1925	8.71	7.46	16.7	265	209	125	84.0	32.7	20.0	20.1	16.6	13.2	68.3	1925
1926	7.96	7.57	11.6	56.5	60.9	35.9	27.5	18.9	20.6	25.2	20.4	15.4	25.4	1926
1927	12.1	10.2	20.2	226	438	284	158	79.8	56.2	64.1	28.8	19.2	117	1927
1928	16.1	12.7	33.4	247	170	120	147	75.2	42.3	29.8	24.0	10.9	77.5	1928
1929	8.07	8.36	10.4	49.9	73.6	47.8	25.0	11.0	7.95	8.58	7.28	8.65	22.3	1929
1930	7.02	5.31	7.70	138	79.2	40.4	27.3	13.0	10.0	10.3	7.06	5.87	29.3	1930
1931	6.33	6.09	9.12	36.4	20.6	12.4	11.0	7.07	7.21	7.84	7.65	4.81	11.4	1931
1932	3.87	3.24	4.94	79.2	42.1	18.3	15.1	8.42	7.19	7.92	7.66	5.34	16.9	1932
1933	4.29	3.89	4.75	122	73.2	61.9	35.1	13.6	9.00	7.03	7.98	6.95	29.1	1933
1934	5.98	6.84	28.2	108	72.2	28.4	13.6	7.55	5.83	7.65	6.90	3.80	24.6	1934
1935	3.13	3.63	4.26	79.0	41.7	32.7	150	44.9	22.6	15.4	9.43	6.68	34.7	1935
1936	6.14	5.34	3.95	159	164	57.7	28.6	12.9	10.1	9.58	7.37	3.18	39.0	1936
1937	3.11	3.58	4.33	39.7	34.5	28.5	12.8	6.91	5.20	8.12	6.29	3.27	12.2	1937
1938	2.67	3.35	30.0	76.5	40.7	19.0	12.8	8.56	6.09	6.04	5.07	4.56	18.0	1938
1939	4.12	3.90	4.40	53.9	29.3	17.1	12.1	9.88	6.23	6.22	6.29	4.61	13.2	1939
1940	1.83	2.08	2.54	16.3	20.5	10.8	7.28	6.27	5.75	5.96	4.47	3.37	7.28	1940
1941	3.13	4.05	3.91	74.3	40.7	32.7	10.9	6.40	10.5	9.47	6.07	5.69	16.4	1941
1942	1.89	2.99	11.5	184	84.0	48.6	28.2	21.1	28.8	20.5	12.9	5.52	37.4	1942
1943	5.86	5.27	5.18	192	171	140	77.5	34.7	17.2	14.4	12.2	6.70	56.9	1943
1944	3.38	4.11	4.13	29.2	37.3	47.2	93.3	38.2	27.0	21.8	14.2	8.36	27.5	1944
1945	6.17	6.88	27.2	102	66.8	41.1	35.9	19.1	12.2	13.1	9.12	6.54	28.9	1945
1946	4.71	4.77	27.6	152	59.6	25.2	32.5	17.5	11.1	17.5	17.7	9.34	31.6	1946
1947	4.76	4.87	5.53	144	217	91.8	224	58.7	31.2	27.0	17.7	13.2	70.5	1947
1948	11.5	8.80	8.67	63.5	383	210	89.0	66.5	29.4	19.7	15.3	12.5	76.8	1948
1949	10.4	6.30	5.47	188	151	87.6	35.9	33.1	14.1	13.7	15.2	10.4	47.7	1949
1950	6.17	5.60	5.03	112	228	155	117	79.7	39.4	29.1	21.0	12.4	67.9	1950
1951	11.8	11.0	13.4	167	237	118	57.7	22.0	22.2	28.3	21.2	14.6	60.5	1951
1952	7.66	7.79	7.45	109	95.7	39.6	23.1	13.0	19.9	13.3	9.75	8.80	29.6	1952
1953	5.66	5.76	5.74	102	97.2	146	144	121	56.0	33.7	38.7	19.0	64.9	1953
1954	16.3	13.4	18.0	66.2	147	187	307	147	68.0	97.6	68.9	41.6	98.8	1954
1955	28.3	25.1	21.3	308	440	376	194	94.0	54.7	48.2	28.8	25.4	137	1955
1956	19.5	16.4	17.1	182	473	368	192	89.2	53.3	37.9	30.7	25.8	126	1956
1957	18.4	12.8	27.8	137	230	90.0	47.9	32.3	26.4	23.3	21.6	17.8	57.4	1957
1958	7.82	8.95	11.4	102	37.9	21.2	17.1	9.10	7.78	9.84	9.85	4.87	20.6	1958
1959	4.55	3.78	5.26	78.0	28.3	25.0	21.6	10.4	9.82	20.3	21.7	13.2	21.0	1959
1960	8.83	10.3	9.66	259	195	101	40.3	15.5	11.1	11.4	9.14	5.46	56.2	1960
1961	5.75	4.28	9.33	44.0	23.3	11.2	6.26	3.50	4.43	5.79	4.80	2.77	10.4	1961
1962	2.76	2.52	2.89	72.3	67.8	30.2	15.7	28.4	17.6	9.37	8.61	5.40	22.0	1962
1963	1.84	1.88	6.11	93.0	39.1	58.6	32.7	17.7	11.7	10.7	7.37	6.08	23.9	1963
1964	5.49	6.63	7.53	78.3	85.3	31.1	18.5	12.0	11.5	12.0	8.27	4.86	23.5	1964
1965	5.26	5.70	5.61	141	115	79.8	57.8	30.6	27.3	32.6	16.7	15.0	44.4	1965
1966	11.8	11.4	38.3	183	168	69.2	41.6	19.8	15.0	9.59	7.33	6.48	48.5	1966
1967	8.14	8.04	9.39	108	155	69.5	21.2	9.76	5.70	7.02	6.91	7.71	34.7	1967
1968	7.91	7.42	15.6	89.5	32.2	16.7	12.0	17.8	21.3	14.9	11.2	6.31	21.0	1968
1969	4.36	6.02	6.39	289	322	136	98.3	51.5	22.2	18.3	16.4	17.7	82.6	1969
1970	16.8	15.1	15.0	115	264	183	115	58.8	24.5	25.3	24.4	18.0	73.2	1970
1971	15.3	14.8	16.8	93.0	124	113	78.9	42.9	18.3	27.3	34.4	28.7	50.7	1971
1972	24.8	25.5	43.0	96.5	217	110	55.5	23.1	16.1	23.2	23.6	21.5	56.7	1972
1973	23.3	19.4	24.2	30.6	16.6	23.4	19.0	14.4	13.2	20.3	18.1	17.5	20.7	1973
1974	16.2	16.8	19.7	147	363	315	141	73.0	44.7	39.4	38.2	36.6	105	1974
1975	32.3	28.8	28.9	62.0	248	247	169	89.4	72.0	102	76.3	54.4	101	1975
1976	46.8	39.9	34.7	312	389	249	150	84.5	46.8	30.5	22.4	18.4	119	1976
1977	21.3	18.2	18.2	29.5	22.5	17.2	19.4	15.6	17.6	18.8	18.7	17.9	19.6	1977
1978	18.9	19.6	22.2	98.4	57.8	26.8	19.9	14.6	14.3	15.5	14.2	13.9	28.0	1978
1979	12.0	13.4	16.4	118	239	234	117	35.6	18.7	15.3	16.4	19.5	70.8	1979
1980	23.0	20.0	18.6	54.5	23.9	11.5	11.1	14.2	16.8	18.2	19.3	17.9	20.7	1980
1981	15.3	13.3	29.9	27.1	16.6	15.4	13.9	8.88	17.3	16.3	16.6	13.5	17.0	1981
1982	13.4	12.5	13.3	97.6	110	71.1	21.0	14.5	16.1	21.3	22.4	21.1	36.2	1982
MEAN	10.3	9.43	13.6	117	151	96.1	66.6	35.5	22.5	22.0	18.0	13.1	47.5	MEAN

LOCATION - LAT 49 52 09 N DRAINAGE AREA, 153 000 km²
LONG 97 24 10 W REGULATED

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	396 ON MAY 8	---	---	1913
1914	---	185 ON MAY 19	2.49 B ON DEC 31	1 270 000	1914
1915	---	47.9 ON APR 27	3.23 B ON JAN 1	415 000	1915
1916	---	614 ON APR 27 *	5.06 ON FEB 11	2 070 000	1916
1917	---	216 ON MAY 31	3.43 B ON DEC 31	1 510 000	1917
1918	---	129 ON APR 9	2.49 B ON JAN 29	604 000	1918
1919	---	216 ON APR 17	5.66 B ON FEB 26	925 000	1919
1920	---	275 ON MAY 1	4.45 B ON FEB 25	1 500 000	1920
1921	---	174 ON APR 21	3.40 B ON FEB 26	1 920 000	1921
1922	---	547 ON MAY 18	8.21 B ON FEB 21	2 990 000	1922
1923	---	592 ON MAY 16	9.80 B ON MAR 31	3 370 000	1923
1924	---	300 ON APR 29	10.4 B ON DEC 31	1 330 000	1924
1925	---	388 ON APR 7	7.11 B ON FEB 28	2 160 000	1925
1926	---	117 ON APR 30	7.36 B ON FEB 9	802 000	1926
1927	---	518 ON MAY 15	10.0 B ON MAR 3	3 690 000	1927
1928	---	360 ON APR 24	8.86 B ON DEC 31	2 450 000	1928
1929	---	114 ON MAY 2	5.38 B ON NOV 21	702 000	1929
1930	---	276 ON APR 13	4.67 B ON FEB 14	923 000	1930
1931	---	54.4 ON APR 13	4.25 B ON NOV 25	358 000	1931
1932	---	191 ON APR 18	2.92 B ON FEB 22	534 000	1932
1933	---	202 ON APR 19	3.43 B ON FEB 16	919 000	1933
1934	---	217 ON APR 19	3.31 B ON DEC 30	774 000	1934
1935	---	269 ON JUL 8	2.63 B ON FEB 6	1 090 000	1935
1936	---	473 ON APR 22	0.566B ON DEC 11 *	1 230 000	1936
1937	---	64.6B ON APR 20	2.15 B ON DEC 31	385 000	1937
1938	---	146 B ON APR 10	2.21 B ON JAN 1	566 000	1938
1939	---	92.3B ON APR 16	3.54 B ON DEC 8	415 000	1939
1940	---	60.9 ON APR 25	1.27 B ON JAN 13	230 000	1940
1941	---	264 B ON APR 15	2.69 B ON JAN 23	519 000	1941
1942	---	317 ON APR 16	0.714B ON JAN 13	1 180 000	1942
1943	---	289 ON APR 15	6.11 B ON DEC 31	1 790 000	1943
1944	---	116 ON JUL 13	2.55 B ON JAN 15	868 000	1944
1945	---	139 ON APR 12	4.39 B ON DEC 19	911 000	1945
1946	---	206 ON APR 14	4.33 B ON MAR 12	998 000	1946
1947	---	320 ON JUL 13	4.22 B ON JAN 11	2 220 000	1947
1948	---	473 ON MAY 18	7.84 B ON MAR 14	2 430 000	1948
1949	---	430 ON APR 18	5.21 B ON MAR 7	1 510 000	1949
1950	---	281 ON MAY 12	3.94 B ON MAR 8	2 140 000	1950
1951	---	286 ON APR 20	7.45 B ON DEC 31	1 910 000	1951
1952	---	230 B ON APR 17	5.89 B ON DEC 1	936 000	1952
1953	---	232 B ON APR 13	4.62 B ON JAN 26	2 050 000	1953
1954	---	382 ON JUL 16	12.0 B ON FEB 11	3 120 000	1954
1955	484 AT 01:00 CST ON MAY 24	481 ON MAY 23	12.3 B ON NOV 9	4 330 000	1955
1956	569 AT 18:00 CST ON APR 26	564 ON APR 26	14.9 B ON FEB 21	3 900 000	1956
1957	249 AT 11:00 CST ON MAY 12	248 ON MAY 12	10.8 B ON DEC 31	1 810 000	1957
1958	283B AT 21:00 CST ON APR 6	222 B ON APR 6	2.89 B ON DEC 17	648 000	1958
1959	181B AT 18:00 CST ON APR 14	146 B ON APR 14	3.45 B ON FEB 10	662 000	1959
1960	566 AT 17:00 CST ON APR 19	566 ON APR 18	4.62 B ON DEC 29	1 780 000	1960
1961	180B AT 12:30 CST ON APR 19	61.4B ON APR 16	1.98 B ON DEC 21	329 000	1961
1962	430 AT 01:00 CST ON APR 24	306 ON APR 24	2.35 B ON MAR 21	693 000	1962
1963	247 AT 08:30 CST ON APR 8	204 ON APR 8	1.13 B ON JAN 27	754 000	1963
1964	277 AT 02:00 CST ON APR 18	228 ON APR 18	4.22 B ON DEC 20	792 000	1964
1965	351 AT 02:00 CST ON APR 19	345 ON APR 19	4.50 B ON JAN 4	1 400 000	1965
1966	314B AT 05:00 CST ON APR 14	292 B ON APR 14	5.89 B ON DEC 9	1 530 000	1966
1967	248 AT 20:00 CST ON APR 20	236 ON APR 25	3.88 B ON NOV 8	1 090 000	1967
1968	204B AT 14:10 CST ON APR 11	153 B ON APR 10	4.39 B ON DEC 31	664 000	1968
1969	597 AT 02:54 CST ON APR 28	595 ON APR 28	3.79 B ON JAN 11	2 610 000	1969
1970	340 AT 06:00 CST ON MAY 21	340 ON MAY 20	9.29 B ON NOV 26	2 310 000	1970
1971	160 AT 10:00 CST ON APR 20	158 ON APR 20	12.8 B ON FEB 6	1 600 000	1971
1972	---	240 ON MAY 18	14.0 ON SEP 22	1 790 000	1972
1973	---	62.6B ON APR 5	8.50 ON SEP 7	652 000	1973
1974	422 AT 23:35 CST ON APR 24	419 ON APR 25	14.9 B ON FEB 1	3 300 000	1974
1975	271 AT 04:00 CST ON MAY 25	271 ON MAY 25	25.5 B ON DEC 2	3 200 000	1975
1976	614 AT 08:00 CST ON APR 25 *	614 ON APR 25	12.5 B ON DEC 4	3 750 000	1976
1977	---	58.3B ON APR 13	9.85 ON AUG 27	617 000	1977
1978	---	182 B ON APR 21	7.53 B ON NOV 16	882 000	1978
1979	309B AT 14:15 CST ON APR 24	270 B ON APR 24	9.03 B ON NOV 12	2 230 000	1979
1980	142B AT 10:32 CST ON APR 17	99.8B ON APR 17	8.71 B ON NOV 16	654 000	1980
1981	---	61.5B ON APR 2	5.91 ON AUG 23	537 000	1981
1982	264 AT 04:35 CST ON APR 18	214 B ON APR 18	11.2 ON SEP 13	1 140 000	1982
				1 500 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER AT ST. JAMES - STATION NO. 05MJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	179	188	80.2	60.3	87.9	130	---	---	---	1912
1913	---	---	---	283	337	141	118	113	---	---	---	---	---	1913
MEAN	---	---	---	283	258	165	99.1	86.7	87.9	130	---	---	---	MEAN

LOCATION - LAT 49 52 30 N   DRAINAGE AREA, 154 000 km^2
LONG 97 11 30 W   NATURAL FLOW

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	14.2	11.3	11.3	147	318	130	108	113	57.3	33.2	---	14.2	---	1913
1914	10.0	9.01	9.20	96.2	173	93.7	35.1	16.2	12.2	11.6	8.50	5.51	40.1	1914
1915	3.45	3.97	5.94	30.2	23.9	17.9	18.9	15.4	10.8	12.4	9.91	4.53	13.1	1915
1916	6.42	6.18	8.44	202	189	143	112	41.7	22.3	23.5	21.5	12.2	65.6	1916
1917	6.61	5.96	6.91	69.0	206	113	74.3	32.8	19.1	15.6	16.2	8.13	48.0	1917
1918	3.14	3.25	9.52	72.0	40.1	38.1	26.5	17.7	17.5	12.6	11.0	7.85	21.7	1918
1919	6.50	5.90	6.04	113	80.5	36.8	30.8	17.6	14.6	15.1	10.7	6.55	29.3	1919
1920	5.29	4.06	8.13	86.2	240	115	39.6	22.5	13.7	12.1	13.6	7.45	47.5	1920
1921	5.21	3.75	5.13	113	148	93.2	117	59.5	35.5	56.5	58.7	30.7	60.8	1921
1922	16.8	8.80	17.7	162	412	278	90.6	46.9	32.2	27.5	26.7	16.6	95.0	1922
1923	13.3	11.7	10.6	154	478	203	148	105	50.6	39.6	32.1	27.5	107	1923
1924	12.4	11.6	14.5	82.6	134	62.3	61.3	32.7	25.8	20.4	22.4	15.1	42.0	1924
1925	8.71	7.46	16.7	265	209	125	89.8	32.7	20.0	20.1	16.6	13.2	68.3	1925
1926	7.96	7.57	11.6	56.5	60.9	35.9	27.5	14.9	20.6	25.2	20.4	15.4	25.4	1926
1927	12.1	10.2	20.2	226	438	284	158	79.8	56.2	64.1	20.8	19.2	117	1927
1928	16.1	12.7	33.4	207	170	120	147	75.2	42.3	[illegible]	24.0	10.9	77.5	1928
1929	8.07	8.36	10.4	49.9	73.6	47.8	25.0	11.0	7.95	8.58	7.28	8.65	22.3	1929
1930	7.02	5.31	7.70	138	79.2	40.4	27.3	13.0	10.0	10.3	7.06	5.07	29.3	1930
1931	6.33	6.09	9.12	36.4	20.6	12.4	11.0	7.07	7.21	7.84	7.65	4.81	11.4	1931
1932	3.87	3.24	4.94	79.2	42.1	18.3	15.1	8.42	7.19	7.92	7.66	5.34	16.9	1932
1933	4.29	3.89	4.75	122	73.2	61.9	35.1	13.6	9.00	7.03	7.98	6.95	29.1	1933
1934	5.98	6.84	28.2	188	72.2	28.4	13.6	7.55	5.83	7.65	6.90	3.80	24.6	1934
1935	3.13	3.63	4.26	79.0	41.7	32.7	150	44.9	22.6	15.4	9.43	6.68	34.7	1935
1936	6.14	5.34	3.95	159	164	57.7	28.6	12.9	10.1	9.58	7.37	3.18	39.0	1936
1937	3.11	3.58	4.33	29.7	34.5	28.5	12.8	6.91	5.20	8.12	6.29	3.27	12.2	1937
1938	2.67	3.35	30.8	76.5	40.7	19.0	12.8	8.56	6.09	6.04	5.07	4.56	18.0	1938
1939	4.12	3.90	4.40	53.9	29.3	17.1	12.1	9.88	6.23	6.22	6.29	4.61	13.2	1939
1940	1.83	2.08	2.54	16.3	20.5	10.8	7.28	6.27	5.75	5.96	4.47	3.37	7.28	1940
1941	3.13	4.05	3.91	74.3	40.7	22.7	10.9	6.40	10.5	9.47	6.07	5.69	16.4	1941
1942	1.89	2.99	11.5	184	84.0	48.6	28.2	21.1	28.8	20.5	12.9	5.52	37.4	1942
1943	5.86	5.27	5.18	192	171	140	77.5	34.7	17.2	14.4	12.2	6.70	56.9	1943
1944	3.38	4.11	4.13	29.2	37.3	47.2	93.3	38.2	27.0	21.8	14.2	8.36	27.5	1944
1945	6.17	6.88	27.2	102	66.8	41.1	35.9	19.1	12.2	13.1	9.12	6.54	28.9	1945
1946	4.71	4.77	27.6	152	59.6	25.2	32.5	17.5	11.1	17.5	17.7	9.34	31.6	1946
1947	4.76	4.87	5.53	144	217	91.8	224	58.7	31.2	27.0	17.7	13.2	70.5	1947
1948	11.5	8.88	8.67	63.5	303	210	89.0	66.5	29.4	19.7	15.3	12.5	76.8	1948
1949	10.4	6.30	5.47	180	151	87.6	35.9	33.1	14.1	13.7	15.2	10.4	47.7	1949
1950	6.17	5.60	5.03	112	228	155	117	79.7	39.4	29.1	21.0	12.4	67.9	1950
1951	11.8	11.0	13.4	167	237	118	57.7	22.0	22.2	28.3	21.2	14.6	60.5	1951
1952	7.66	7.79	7.45	109	95.7	39.6	23.1	13.0	19.9	13.3	9.75	8.80	29.6	1952
1953	5.66	5.76	5.74	102	97.2	146	144	121	56.0	33.7	38.7	19.0	64.9	1953
1954	16.3	13.4	18.0	66.2	147	187	307	147	68.0	97.6	68.9	41.6	98.8	1954
1955	28.3	25.1	21.3	308	440	376	194	94.0	54.7	48.2	28.8	25.4	137	1955
1956	19.5	16.4	17.1	182	473	360	192	89.2	53.3	37.9	30.7	25.8	126	1956
1957	18.4	12.8	27.8	137	230	90.0	47.9	32.3	26.4	23.3	21.6	17.8	57.4	1957
1958	7.82	8.95	11.4	102	37.9	21.2	17.1	9.10	7.78	9.84	9.85	4.87	20.6	1958
1959	4.55	3.78	5.26	78.0	28.3	25.0	21.6	10.4	9.82	20.3	21.7	13.2	21.0	1959
1960	8.83	10.3	9.66	259	195	101	40.3	15.5	11.1	11.4	9.14	5.46	56.2	1960
1961	5.75	4.28	9.33	44.0	23.3	11.2	6.26	3.50	4.43	5.79	4.80	2.77	10.4	1961
1962	2.76	2.52	2.89	72.3	67.8	30.2	15.7	28.4	17.6	9.37	8.61	5.40	22.0	1962
1963	1.84	1.88	6.11	93.0	39.1	58.6	32.7	17.7	11.7	10.7	7.37	6.08	23.9	1963
1964	5.49	6.63	7.53	78.3	85.3	31.1	18.5	12.0	11.5	12.0	8.27	4.86	23.5	1964
1965	5.26	5.78	5.61	141	115	79.8	57.8	30.6	27.3	32.6	16.7	15.0	44.4	1965
1966	11.0	11.6	38.3	183	168	69.2	41.6	19.8	15.0	9.59	7.33	6.48	48.5	1966
1967	8.14	8.04	9.39	108	155	69.5	21.2	9.76	5.70	7.02	6.91	7.71	34.7	1967
1968	7.91	7.42	15.6	89.5	32.2	16.7	12.0	17.8	21.3	14.9	11.2	6.31	21.0	1968
1969	4.36	6.02	6.39	289	322	136	98.3	51.5	22.2	18.3	16.4	17.7	82.6	1969
1970	16.8	15.1	15.0	115	264	183	115	58.8	24.5	25.3	24.4	18.0	73.2	1970
1971	15.3	14.8	16.8	93.0	124	113	78.9	42.9	18.3	27.3	34.4	28.7	50.7	1971
1972	24.8	25.5	43.0	96.5	217	118	55.5	23.1	16.1	23.2	23.6	21.5	56.7	1972
1973	23.3	19.4	24.2	30.6	16.6	23.4	19.0	14.4	13.2	28.3	19.1	17.5	20.7	1973
1974	16.2	16.8	19.7	147	363	315	141	73.0	44.7	39.4	38.2	36.6	105	1974
1975	32.3	28.8	28.9	62.8	248	247	169	89.4	72.0	102	76.3	54.4	101	1975
1976	46.0	39.9	34.7	312	389	249	150	84.5	46.0	30.5	22.4	18.4	119	1976
1977	21.3	18.2	18.2	29.5	22.5	17.2	19.4	15.6	17.6	18.8	18.7	17.9	19.6	1977
1978	18.9	19.6	22.2	98.4	57.8	26.8	19.9	14.6	14.3	15.5	14.2	13.9	28.0	1978
1979	12.0	13.4	16.4	118	239	234	117	35.6	18.7	15.3	16.4	19.5	70.8	1979
1980	23.0	20.0	18.6	54.5	23.9	11.5	11.1	14.2	16.8	18.2	19.3	17.9	20.7	1980
1981	15.3	13.3	29.9	27.1	16.6	15.4	13.9	8.88	17.3	16.3	16.6	13.5	17.0	1981
1982	13.4	12.5	13.3	97.6	118	71.1	21.0	14.5	16.1	21.3	22.4	21.1	36.2	1982
MEAN	10.3	9.03	13.6	117	151	96.1	66.6	35.5	22.5	22.0	18.0	13.1	47.5	MEAN

LOCATION - LAT 49 52 09 N DRAINAGE AREA, 153 000 km^2
LONG 97 24 10 W REGULATED

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	396 ON MAY 8	---	---	1913
1914	---	185 ON MAY 19	2.49 B ON DEC 31	1 270 000	1914
1915	---	47.9 ON APR 27	3.23 B ON JAN 1	815 000	1915
1916	---	614 ON APR 27 *	5.86 ON FEB 11	2 070 000	1916
1917	---	216 ON MAY 31	3.43 B ON DEC 31	1 510 000	1917
1918	---	129 ON APR 9	2.49 B ON JAN 29	684 000	1918
1919	---	216 ON APR 17	5.66 B ON FEB 26	925 000	1919
1920	---	275 ON MAY 1	4.45 B ON FEB 25	1 500 000	1920
1921	---	174 ON APR 21	3.40 B ON FEB 26	1 920 000	1921
1922	---	547 ON MAY 18	8.21 B ON FEB 21	2 990 000	1922
1923	---	592 ON MAY 16	9.88 B ON MAR 31	3 370 000	1923
1924	---	300 ON APR 29	10.4 B ON DEC 31	1 330 000	1924
1925	---	388 ON APR 7	7.11 B ON FEB 28	2 160 000	1925
1926	---	117 ON APR 30	7.36 B ON FEB 9	802 000	1926
1927	---	518 ON MAY 15	10.0 B ON MAR 3	3 690 000	1927
1928	---	360 ON APR 24	8.86 B ON DEC 31	2 450 000	1928
1929	---	114 ON MAY 2	5.38 B ON NOV 21	702 000	1929
1930	---	276 ON APR 13	4.67 B ON FEB 14	923 000	1930
1931	---	54.4 ON APR 13	4.25 B ON NOV 25	358 000	1931
1932	---	191 ON APR 18	2.92 B ON FEB 22	534 000	1932
1933	---	202 ON APR 19	3.43 B ON FEB 16	919 000	1933
1934	---	217 ON APR 19	3.31 B ON DEC 30	774 000	1934
1935	---	269 ON JUL 8	2.63 B ON FEB 6	1 090 000	1935
1936	---	473 ON APR 22	0.566B ON DEC 11 *	1 230 000	1936
1937	---	64.6B ON APR 20	2.15 B ON DEC 31	385 000	1937
1938	---	146 B ON APR 10	2.21 B ON JAN 1	566 000	1938
1939	---	92.3B ON APR 16	3.54 B ON DEC 8	415 000	1939
1940	---	60.9 ON APR 25	1.27 B ON JAN 13	230 000	1940
1941	---	224 B ON APR 15	2.69 B ON JAN 23	519 000	1941
1942	---	317 ON APR 16	0.714B ON JAN 13	1 180 000	1942
1943	---	289 ON APR 15	4.11 B ON DEC 31	1 790 000	1943
1944	---	116 ON JUL 13	2.55 B ON JAN 15	868 000	1944
1945	---	139 ON APR 12	4.39 B ON DEC 19	911 000	1945
1946	---	206 ON APR 14	4.33 B ON MAR 12	998 000	1946
1947	---	320 ON JUL 13	4.22 B ON JAN 11	2 220 000	1947
1948	---	473 ON MAY 18	7.84 B ON MAR 14	2 430 000	1948
1949	---	430 ON APR 18	5.21 B ON MAR 7	1 510 000	1949
1950	---	281 ON MAY 12	3.94 B ON MAR 8	2 140 000	1950
1951	---	286 ON APR 20	7.45 B ON DEC 31	1 910 000	1951
1952	---	230 B ON APR 17	5.89 B ON DEC 1	936 000	1952
1953	---	232 B ON APR 13	4.62 B ON JAN 26	2 050 000	1953
1954	---	382 ON JUL 16	12.0 B ON FEB 11	3 120 000	1954
1955	484 AT 01:00 CST ON MAY 24	481 ON MAY 23	12.3 B ON NOV 9	4 330 000	1955
1956	569 AT 18:00 CST ON APR 26	564 ON APR 26	14.9 B ON FEB 21	3 980 000	1956
1957	249 AT 11:00 CST ON MAY 12	248 ON MAY 12	10.8 B ON DEC 31	1 810 000	1957
1958	283B AT 21:00 CST ON APR 6	222 B ON APR 6	2.89 B ON DEC 17	648 000	1958
1959	181B AT 18:00 CST ON APR 14	146 B ON APR 14	3.45 B ON FEB 10	662 000	1959
1960	566 AT 17:00 CST ON APR 19	566 ON APR 18	4.62 B ON DEC 29	1 780 000	1960
1961	140B AT 12:30 CST ON APR 19	61.4B ON APR 16	1.98 B ON DEC 21	329 000	1961
1962	430 AT 01:00 CST ON APR 24	306 ON APR 24	2.35 B ON MAR 21	693 000	1962
1963	247 AT 08:30 CST ON APR 8	204 ON APR 8	1.13 B ON JAN 27	754 000	1963
1964	277 AT 02:00 CST ON APR 18	228 ON APR 18	4.22 B ON DEC 20	742 000	1964
1965	351 AT 02:00 CST ON APR 19	345 ON APR 19	4.50 B ON JAN 4	1 400 000	1965
1966	314B AT 05:00 CST ON APR 14	292 B ON APR 14	5.89 B ON DEC 9	1 530 000	1966
1967	248 AT 20:00 CST ON APR 20	236 ON APR 25	3.08 B ON NOV 8	1 090 000	1967
1968	204B AT 14:10 CST ON APR 11	153 B ON APR 10	4.39 B ON DEC 31	664 000	1968
1969	597 AT 02:54 CST ON APR 28	595 ON APR 28	3.79 B ON JAN 11	2 610 000	1969
1970	340 AT 06:00 CST ON MAY 21	340 ON MAY 20	9.29 B ON NOV 26	2 310 000	1970
1971	160 AT 10:00 CST ON APR 20	158 ON APR 20	12.8 B ON FEB 6	1 600 000	1971
1972	---	240 ON MAY 18	14.0 ON SEP 22	1 790 000	1972
1973	---	62.6B ON APR 5	8.50 ON SEP 7	652 000	1973
1974	422 AT 23:35 CST ON APR 24	419 ON APR 25	14.9 B ON FEB 1	3 300 000	1974
1975	271 AT 04:00 CST ON MAY 25	271 ON MAY 25	25.5 B ON DEC 2	3 200 000	1975
1976	614 AT 08:00 CST ON APR 25 *	614 ON APR 25	12.5 B ON DEC 4	3 750 000	1976
1977	---	58.3B ON APR 13	9.85 ON AUG 27	617 000	1977
1978	---	142 B ON APR 21	7.53 B ON NOV 16	882 000	1978
1979	309B AT 14:15 CST ON APR 24	270 B ON APR 24	9.03 B ON NOV 12	2 230 000	1979
1980	142B AT 18:32 CST ON APR 17	99.8B ON APR 17	8.71 B ON NOV 16	654 000	1980
1981	---	61.5B ON APR 2	5.91 ON AUG 23	537 000	1981
1982	264 AT 04:35 CST ON APR 18	214 B ON APR 18	11.2 ON SEP 13	1 140 000	1982
				1 500 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER AT ST. JAMES - STATION NO. 05MJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	179	188	80.2	60.3	87.9	130	---	---	---	1912
1913	---	---	---	283	337	141	118	113	---	---	---	---	---	1913
MEAN	---	---	---	283	258	165	99.1	86.7	87.9	130	---	---	---	MEAN

LOCATION - LAT 49 52 30 N   DRAINAGE AREA, 154 000 km²
LONG 97 11 38 W   NATURAL FLOW

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	12.4	12.4	17.3	147	210	177	91.6	54.2	36.0	31.9	28.9	26.8	70.7	1974
1975	25.0	24.6	23.8	78.7	196	126	75.6	57.1	63.3	59.5	48.1	33.3	67.8	1975
1976	28.9	27.3	18.2	335	227	122	96.0	52.8	22.3	21.2	20.2	17.7	82.2	1976
1977	18.0	13.7	11.7	16.2	14.5	11.0	12.6	9.91	8.75	12.5	15.7	18.6	13.6	1977
1978	16.9	17.2	20.5	50.6	28.3	11.8	8.67	4.11	5.68	7.39	13.2	11.3	16.3	1978
1979	11.0	11.0	18.7	106	214	120	60.0	14.3	9.51	11.1	14.8	17.8	50.9	1979
1980	17.9	17.1	17.2	43.6	13.2	7.91	8.30	8.76	10.8	11.3	14.5	12.9	15.2	1980
1981	11.8	12.8	18.9	13.5	8.39	8.64	4.98	3.72	4.45	10.2	14.8	12.5	10.4	1981
1982	11.4	11.7	9.99	55.2	43.0	26.7	6.60	6.40	4.44	9.96	15.1	16.3	18.0	1982
MEAN	17.0	16.4	17.4	94.0	106	67.9	40.5	23.5	18.4	19.5	20.6	18.6	38.3	MEAN

LOCATION - LAT 49 52 20 N DRAINAGE AREA, 85 700 km²
LONG 100 06 10 W REGULATED

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	309 A ON APR 22	12.2 B ON FEB 22	2 230 000	1974
1975	262 AT 16:38 CST ON MAY 1 *	261 ON MAY 1	17.5 B ON APR 12	2 140 000	1975
1976	---	617 ON APR 18 *	15.2 B ON MAR 29	2 600 000	1976
1977	20.9 AT 23:31 CST ON APR 14	20.7 ON APR 14	7.28 ON SEP 4	429 000	1977
1978	66.3 AT 20:50 CST ON APR 18	63.4 ON APR 18	3.14 ON AUG 21	513 000	1978
1979	---	314 B ON APR 27	7.57 ON AUG 27	1 610 000	1979
1980	103 B AT 08:52 CST ON APR 15	95.1B ON APR 15	6.76 ON JUN 26	482 000	1980
1981	---	26.1B ON MAR [illegible]	2.38 ON AUG 10 *	327 000	1981
1982	117 AT 12:40 CST ON APR 22	108 ON APR 22	3.65 ON SEP 26	568 000	1982
				1 210 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	9.45	35.6	21.2	8.42	4.80	4.28	5.06	6.12	---	---	---	1961
1962	---	---	3.85	59.4	56.7	26.8	14.5	15.1	10.9	10.2	---	---	---	1962
1963	---	---	18.5	68.5	32.6	52.5	27.8	14.1	11.1	10.4	---	---	---	1963
1964	---	---	6.56	83.3	87.9	28.1	19.9	9.82	13.9	10.6	---	---	---	1964
1965	---	---	5.85	154	107	78.0	61.3	30.0	33.5	34.9	---	---	---	1965
1966	---	---	39.5	155	176	68.9	40.9	21.0	15.2	9.34	---	---	---	1966
1967	---	---	7.75	105	162	63.6	17.6	8.09	5.30	7.20	7.68	7.29	---	1967
1968	7.65	7.59	24.0	79.6	28.0	16.1	11.3	16.1	20.6	16.3	12.7	7.49	20.6	1968
1969	6.16	7.34	8.99	338	292	130	91.8	44.3	19.4	18.0	18.0	17.6	82.8	1969
1970	16.3	15.6	17.2	156	315	193	118	55.5	24.1	19.7	28.9	19.0	81.9	1970
1971	16.3	15.9	17.3	106	133	123	79.0	41.5	15.5	24.7	39.9	29.1	53.6	1971
1972	25.2	25.1	66.3	201	223	107	49.1	18.9	14.9	18.1	22.8	21.6	66.1	1972
1973	22.2	16.6	25.7	27.4	23.0	25.9	21.1	14.1	16.1	28.6	19.2	16.6	21.4	1973
1974	15.5	16.9	22.0	324	464	345	153	74.2	48.0	43.9	41.7	35.8	132	1974
1975	31.2	27.9	28.6	127	449	333	181	94.8	85.0	104	74.7	55.5	133	1975
1976	44.8	36.1	35.8	908	588	255	156	82.8	40.0	29.5	22.8	19.8	184	1976
1977	21.7	18.8	20.8	28.6	27.8	19.5	23.5	18.2	17.0	18.4	17.9	20.8	21.1	1977
1978	19.2	19.7	25.0	97.5	53.4	22.5	20.1	13.8	13.4	11.7	19.3	13.0	27.3	1978
1979	17.9	17.4	24.8	223	399	281	118	30.0	13.6	13.4	21.1	16.4 R	98.1R	1979
1980	19.2	18.5	18.6	51.3	21.0	14.4	14.0	17.6	16.3	19.4	22.3	16.8	20.7	1980
1981	17.0	17.9	30.9	24.0	17.0	15.7	11.0	10.0	11.7	15.8	18.3	15.0	17.0	1981
1982	15.5	14.3	12.4	115	109	59.8	16.9	13.8	12.2	18.4	25.1	21.9	36.2	1982
MEAN	19.7	18.4	21.4	158	172	103	56.8	29.5	21.0	22.2	25.8	20.9 R	66.4	MEAN

R - REVISED SINCE JAN 1980

LOCATION - LAT 49 41 54 N DRAINAGE AREA, 152 000 km²
LONG 98 53 56 W REGULATED

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	57.2B ON APR 10	---	---	1961
1962	---	184 B ON APR 20	---	---	1962
1963	---	107 B ON APR 8	---	---	1963
1964	---	144 E ON APR 20	---	---	1964
1965	---	379 B ON APR 14	---	---	1965
1966	---	224 ON MAY 9	---	---	1966
1967	---	219 B ON APR 22	---	---	1967
1968	---	105 ON APR 13	6.74B ON DEC 31	650 000	1968
1969	---	694 A ON APR 24	5.38B ON JAN 30 *	2 610 000	1969
1970	---	501 ON APR 28	14.7 B ON MAR 2	2 580 000	1970
1971	195 AT 23:00 CST ON APR 17	193 ON APR 18	10.8 B ON NOV 8	1 690 000	1971
1972	---	314 ON APR 21	13.3 ON SEP 17	2 090 000	1972
1973	---	56.4B ON APR 1	10.6 ON AUG 28	675 000	1973
1974	926 AT 05:05 CST ON APR 22	909 ON APR 22	13.5 B ON JAN 27	4 170 000	1974
1975	515 R AT 20:00 CST ON MAY 1	498 E ON MAY 1	24.6 B ON FEB 18	4 200 000	1975
1976	1 470 AT 02:00 CST ON APR 20 *	1 460 ON APR 20 *	12.7 B ON NOV 30	5 830 000	1976
1977	60.6 AT 09:45 CST ON JUL 13	42.2 ON JUL 13	10.4 B ON NOV 22	666 000	1977
1978	---	154 B ON APR 10	10.9 ON OCT 23	862 000	1978
1979	561 A AT 10:45 CST ON APR 24	546 A ON APR 24	10.2 ON OCT 6	3 100 000R	1979
1980	99.9 AT 16:00 CST ON APR 17	97.5 ON APR 17	9.21B ON DEC 21	656 000	1980
1981	---	41.8B ON MAR 22	6.20 ON AUG 22	536 000	1981
1982	---	239 A ON APR 16	10.8 B ON MAR 23	1 140 000	1982
				2 100 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05ME006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	2.72	10.3	8.23	3.45	1.36	0.496	0.854	1.96	---	---	---	1961
1962	---	---	2.02	31.3	32.6	8.93	3.69	3.00	3.59	3.55	---	---	---	1962
1963	---	---	5.30	27.3	15.5	17.9	13.8	5.92	5.06	3.99	---	---	---	1963
1964	---	---	2.91	44.4	37.7	10.1	5.02	3.20	2.96	3.81	---	---	---	1964
1965	---	---	1.75	73.5	44.7	43.4	15.1	7.05	7.79	8.08	---	---	---	1965
1966	---	---	3.56	103	80.9	26.3	23.8	10.2	4.65	2.06	---	---	---	1966
1967	---	---	3.31	49.8	94.4	27.5	6.49	3.07	1.90	3.19	---	---	---	1967
1968	---	---	8.22	42.9	12.0	6.41	4.10	4.95	2.54	1.87	---	---	---	1968
1969	---	---	3.57	92.0	57.1	29.4	25.5	8.51	7.00	9.82	---	---	---	1969
1970	---	---	9.22	60.0	108	51.0	38.9	23.4	9.39	12.1	---	---	---	1970
1971	---	---	9.85	50.3	55.7	43.6	22.4	13.3	4.48	13.1	---	---	---	1971
1972	---	---	22.4	80.2	95.7	58.2	8.52	5.85	6.53	10.1	---	---	---	1972
1973	---	---	11.7	9.26	6.70	8.69	6.66	4.17	7.69	11.6	12.3	12.2	---	1973
1974	12.9	13.1	19.7	97.6	151	135	80.7	46.5	33.2	30.1	29.6	27.0	56.5	1974
1975	24.4	23.0	23.5	55.7	144	97.1	65.0	47.0	35.9	30.2	34.9	32.0	51.3	1975
1976	26.6	23.5	14.6	230	147	102	77.3	44.2	19.5	20.5	19.3	16.8	61.6	1976
1977	15.3	10.8	11.2	11.0	8.49	7.20	8.64	7.85	5.87	8.13	17.0	14.3	10.5	1977
1978	12.9	14.5	18.4	35.6	13.9	7.03	4.62	2.74	4.58	7.56	17.0	10.4	12.4	1978
1979	8.83	10.1	27.7	105	136	89.0	50.0	9.36	8.79	11.2	12.3	16.3	40.5	1979
1980	17.4	15.3	16.3	33.4	7.08	6.11	7.19	6.61	5.41	8.69	15.5	13.6	12.7	1980
1981	9.38	10.6	10.6	7.95	3.75	3.95	1.59	1.65	3.39	9.24	13.3	9.48	7.04	1981
1982	10.4	8.40	6.48	31.4	32.6	20.9	5.19	4.77	3.81	10.5	13.6	14.2	13.5	1982
MEAN	15.3	14.4	10.7	58.3	58.8	36.5	21.6	12.0	8.41	10.1	18.5	16.6	29.6	MEAN

LOCATION - LAT 50 06 39 N LONG 101 02 08 W DRAINAGE AREA, 76 100 km^2 REGULATED

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05ME006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	12.5B ON APR 8	---	---	1961
1962	---	89.8 ON APR 26	---	---	1962
1963	---	36.0 ON JUN 11	---	---	1963
1964	---	79.9B ON APR 17	---	---	1964
1965	---	150 B ON APR 20	---	---	1965
1966	---	148 ON APR 23	---	---	1966
1967	---	112 ON MAY 13	---	---	1967
1968	---	64.6 ON APR 15	---	---	1968
1969	---	278 ON APR 15	---	---	1969
1970	---	142 ON MAY 3	---	---	1970
1971	---	112 B ON APR 14	---	---	1971
1972	---	173 B ON APR 19	---	---	1972
1973	15.1B AT 17:47 CST ON MAR 31	14.6B ON MAR 31	---	---	1973
1974	273 AT 11:52 CST ON APR 22	270 ON APR 22	12.5 B ON FEB 2	1 780 000	1974
1975	174 AT 17:15 CST ON MAY 21	174 ON MAY 21	12.7 B ON APR 11	1 620 000	1975
1976	462 AT 23:09 CST ON APR 11 *	447 ON APR 12 *	13.4 B ON MAR 4	1 950 000	1976
1977	22.9 AT 06:00 CST ON NOV 10	22.6 ON NOV 9	4.79 ON JUL 29	331 000	1977
1978	---	51.5B ON APR 10	2.39 ON AUG 14	390 000	1978
1979	279 AT 14:42 CST ON APR 24	264 ON APR 24	6.15 ON AUG 23	1 280 000	1979
1980	---	59.2B ON APR 11	3.50 ON MAY 26	401 000	1980
1981	17.4 AT 14:13 CST ON APR 1	17.0 ON APR 2	0.995 ON JUL 29 *	222 000	1981
1982	---	67.3B ON APR 16	3.66 ON SEP 7	426 000	1982
				933 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	465	186	150	105	48.6	38.6	31.2	---	---	1923
1924	---	---	---	---	127	64.8	64.7	31.2	25.2	26.9	---	---	---	1924
1925	---	---	---	282	195	125	81.4	28.4	18.3	26.9	---	---	---	1925
1926	---	---	---	61.5	59.1	38.3	27.3	14.6	24.8	25.7	20.1	---	---	1926
1927	---	---	---	215	460	268	156	79.2	56.4	58.5	---	---	---	1927
1928	---	---	---	---	161	126	148	64.1	27.4	24.1	---	---	---	1928
1929	---	---	---	---	79.6	54.9	30.1	13.1	9.27	10.6	---	---	---	1929
1930	---	---	---	---	80.3	47.1	31.2	13.6	9.26	---	---	---	---	1930
1952	---	---	---	---	---	---	---	---	---	13.6	11.4	8.27	---	1952
1953	5.97	6.36	6.86	119	104	159	152	122	54.4	32.0	40.6	18.6	68.7	1953
1954	15.8	13.5	16.6	68.7	148	199	321	131	62.3	99.4	72.1	41.0	99.6	1954
1955	27.8	24.6	20.8	342	487	337	181	83.7	55.8	50.8	28.3	26.5	139	1955
1956	18.4	16.4	19.1	228	483	387	203	90.4	58.7	38.0	34.7	24.7	134	1956
1957	18.5	12.3	30.9	128	217	84.0	43.7	29.6	24.0	21.2	23.0	16.7	54.3	1957
1958	8.39	8.88	13.2	96.4	37.4	18.8	14.8	8.67	7.66	10.3	10.7	4.29	19.9	1958
1959	4.15	4.35	10.7	72.5	37.2	23.0	20.0	9.06	8.47	17.6	21.6	10.1	19.9	1959
1960	10.4	10.2	8.16	274	193	97.3	38.5	12.8	8.81	10.0	7.96	4.32	56.2	1960
1961	4.89	5.29	10.7	41.0	23.4	11.4	5.65	3.41	4.82	8.84	8.67	3.19	10.9	1961
1962	3.94	3.84	4.25	66.1	64.6	27.8	12.8	15.6	11.3	9.54	10.1	4.99	19.6	1962
1963	1.67	0.895	4.49	73.9	37.8	57.7	33.0	16.1	11.6	11.0	8.59	5.80	21.9	1963
1964	5.33	6.18	6.55	86.9	92.7	31.0	17.0	9.78	10.8	12.4	9.26	5.32	24.4	1964
1965	6.05	6.20	5.97	144	108	80.5	59.2	30.1	31.0	36.0	18.3	15.7	45.2	1965
1966	13.4	10.9	39.4	154	171	70.1	43.8	22.4	16.9	10.6	8.27	5.68	47.3	1966
1967	6.67	6.93	8.01	99.1	161	69.4	19.1	8.30	5.07	7.73	8.19	6.84	33.9	1967
1968	6.62	7.08	15.0	78.9	31.6	17.5	12.3	16.8	20.9	15.7	13.7	6.50	20.2	1968
1969	4.42	7.02	8.63	336	295	132	95.8	45.5	21.0	19.4	19.1	16.9	83.5	1969
1970	15.5	14.4	16.4	106	266	187	121	58.8	25.3	28.4	27.0	17.1	74.0	1970
1971	15.1	14.8	16.8	95.4	127	116	79.4	44.5	17.9	29.8	34.4	29.6	51.9	1971
1972	26.0	24.6	45.3	94.8	221	107	52.6	22.0	15.7	23.2	23.9	20.3	56.5	1972
1973	22.9	18.2	23.0	29.3	16.3	23.4	20.6	14.1	15.4	31.6	19.4	16.6	20.9	1973
1974	16.1	17.2	20.5	140	343	301	144	71.4	45.6	42.3	40.9	35.5	102	1974
1975	31.3	29.1	29.8	66.0	260	247	168	88.0	74.0	101	72.0	56.8	102	1975
1976	46.4	39.0	34.9	334	367	241	151	83.7	46.2	31.3	22.7	18.2	118	1976
1977	21.7	19.0	19.6	28.0	24.8	18.5	21.6	16.6	17.3	18.8	19.2	20.5	20.5	1977
1978	18.8	19.8	24.4	93.0	55.2	27.7	22.7	16.4	15.3	17.2	16.5	13.6	28.3	1978
1979	14.1	15.5	14.9	93.0	239	236	119	38.9	22.6	18.2	20.7	20.5	71.3	1979
1980	21.8	20.7	20.4	49.6	25.2	12.5	11.4	15.3	19.2	21.4	20.5	21.9	21.6	1980
1981	16.1	16.6	26.9	22.1	18.6	17.1	13.8	11.4	19.9	19.1	17.0	11.8	17.5	1981
1982	14.3	13.4	11.2	105	119	73.6	23.5	16.1	17.4	20.1	24.3	20.9	38.2	1982
MEAN	14.8	13.8	17.8	128	168	114	76.6	39.5	25.9	27.3	23.2	17.1	54.0	MEAN

LOCATION - LAT 49 56 09 N LONG 98 16 48 W DRAINAGE AREA, 152 000 km^2 REGULATED

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1923	---	626 ON MAY 10	---	---	1923
1924	---	---	---	---	1924
1925	---	334 ON APR 7	---	---	1925
1926	---	121 ON APR 28	---	---	1926
1927	---	578 ON MAY 13	---	---	1927
1928	---	---	---	---	1928
1929	---	121 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1952	---	---	---	---	1952
1953	---	297 ON JUN 7	5.27 B ON JAN 20	2 170 000	1953
1954	---	425 ON JUL 13	11.8 B ON FEB 10	3 140 000	1954
1955	---	629 ON MAY 24	13.0 B ON NOV 19	4 400 000	1955
1956	---	637 B ON APR 21	14.4 B ON JAN 30	4 220 000	1956
1957	---	238 ON MAY 9	10.2 B ON DEC 31	1 710 000	1957
1958	---	188 ON APR 8	2.94 B ON DEC 15	627 000	1958
1959	---	185 B ON APR 10	3.60 B ON JAN 27	627 000	1959
1960	592 AT 18:00 CST ON APR 15	586 ON APR 15	3.37 B ON DEC 5	1 780 000	1960
1961	79.6 AT 13:45 CST ON APR 18	62.3 ON APR 15	2.29 B ON DEC 16	344 000	1961
1962	255 B AT 20:45 CST ON APR 20	199 B ON APR 21	3.37 B ON JAN 30	618 000	1962
1963	147 B ON APR 11	131 B ON APR 10	0.708B ON JAN 21 *	689 000	1963
1964	---	162 ON APR 21	4.81 B ON JAN 1	772 000	1964
1965	504 B AT 07:30 CST ON APR 16	439 B ON APR 16	4.67 B ON APR 3	1 420 000	1965
1966	---	229 B ON APR 7	4.87 B ON DEC 6	1 490 000	1966
1967	---	223 A ON APR 24	4.64 ON SEP 8	1 070 000	1967
1968	---	102 B ON APR 8	4.62 B ON DEC 28	638 000	1968
1969	651 AT 11:10 CST ON APR 24	626 ON APR 24	3.74 B ON JAN 13	2 630 000	1969
1970	343 AT 07:42 CST ON MAY 19	340 ON MAY 17	13.8 B ON JAN 30	2 330 000	1970
1971	179 AT 18:30 CST ON JUN 18	170 ON JUN 19	12.9 B ON FEB 4	1 640 000	1971
1972	---	242 ON MAY 14	12.5 B ON NOV 17	1 790 000	1972
1973	---	62.0B ON APR 2	9.94 ON AUG 26	559 000	1973
1974	368 B AT 10:00 CST ON APR 22	360 ON APR 23	14.2 B ON JAN 29	3 210 000	1974
1975	275 AT 21:30 CST ON MAY 23	273 ON MAY 23	26.2 B ON JAN 29	3 230 000	1975
1976	682 AT 18:30 CST ON APR 21 *	668 ON APR 21 *	12.1 B ON DEC 2	3 730 000	1976
1977	67.7 AT 19:30 CST ON JUL 14	49.8 ON JUL 15	10.9 ON AUG 25	645 000	1977
1978	---	154 B ON APR 10	10.7 B ON NOV 15	894 000	1978
1979	362 B AT 13:41 CST ON APR 25	326 B ON APR 25	9.88 B ON MAR 12	2 250 000	1979
1980	137 AT 18:38 CST ON APR 14	98.0 ON APR 14	8.86 ON NOV 14	683 000	1980
1981	59.1 AT 17:44 CST ON SEP 14	47.0 ON SEP 14	1.75 B ON DEC 4	553 000	1981
1982	205 AT 08:32 CST ON APR 25	202 ON APR 25	9.98 B ON MAR 11	1 210 000	1982
				1 710 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO. 05MJ005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	306	183	120	58.6	24.6	27.6	27.4	16.9	---	1970
1971	15.1	14.6	21.0	126	126	118	76.2	43.1	18.0	27.0	33.3	26.9	53.9	1971
1972	24.5	25.2	64.6	199	232	106	42.6	22.7	19.0	22.7	24.9	19.7	66.9	1972
MEAN	19.8	19.9	42.8	163	221	136	79.6	41.5	20.5	25.8	28.5	21.2	60.4	MEAN

LOCATION - LAT 49 45 32 N LONG 98 38 32 W DRAINAGE AREA, 152 000 km^2 REGULATED

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO. 05MJ005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	---	---	---	1970
1971	---	198 ON APR 18	13.7B ON FEB 3 *	1 700 000	1971
1972	---	328 ON APR 22 *	16.1B ON DEC 29	2 110 000	1972
				1 910 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO. 05ME001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	1.55	2.83	136	128	52.5	96.5	72.2	29.9	16.9	14.3	6.00	---	1913
1914	2.85	2.68 R	3.81 R	49.2	103	33.5	10.2	3.56	3.34	4.08	3.71	2.09	18.6 R	1914
1915	1.27	1.78	1.84	16.7	7.00	7.28	10.5	4.23	3.36	3.95	3.68	2.12	5.31	1915
1916	1.42	1.42	1.27	40.9	23.8	51.6	26.4	11.1	7.55	9.88	9.37	3.18	15.6	1916
1917	1.31	1.07	1.47	25.2	112	31.2	42.4	10.8	7.80	4.86	5.14	1.67	20.6	1917
1918	1.55	1.41	4.20	30.5	12.8	13.5	15.2	9.78	6.63	6.27	5.54	3.08	9.22	1918
1919	2.38	2.15	1.98	27.4	19.9	11.3	20.0	8.18	7.60	8.46	4.88	2.68	10.5	1919
1920	2.65	2.66	2.79	36.0	152	36.9	11.2 R	5.70 R	4.71 R	5.29 R	7.29 R	3.72	22.7 R	1920
1921	2.43	2.18	2.76	86.8	91.6	76.0	89.5	35.8	29.8	41.4	42.6	14.9	43.1	1921
1922	8.15	5.20	5.45	185	323	95.2	24.3	12.6	9.94	6.14	9.15	4.87	57.7	1922
1923	3.61	3.72	3.60	58.6	187	58.6	57.7	24.1	9.30	8.88	6.72	4.19	35.8	1923
1924	2.52	2.30	2.76	21.8	25.9	16.4	9.56	13.7	8.20	9.18	6.42	4.07	10.3	1924
1925	3.00	2.44	3.53	109	33.2	30.8	21.0	7.76	5.17	5.87	4.15	2.63	19.0	1925
1926	1.71	1.79	3.59	51.5	23.8	14.6	6.13	3.25	6.73	11.0	9.71	3.95	11.5	1926
1927	3.10	2.54	2.62	119	134	49.9	33.8	18.4	18.6	20.4	11.8	5.21	35.1	1927
1928	3.71	2.96	23.6	87.2	46.9	30.6	36.0	10.6	4.89	4.52	3.01	2.49	21.4	1928
1929	2.21	1.91	2.27	30.3	23.2	12.1	6.70	3.66	3.24	3.86	3.98	3.14	8.05	1929
1930	2.04	1.62	2.79	26.9	14.3	10.5	6.72	3.34	2.85	3.38	3.27	2.15	6.66	1930
1931	1.97	1.67	2.63	24.5	6.90	4.83	3.63	2.82	2.71	3.06	2.09	0.921	4.80	1931
1932	0.650	1.08	1.32	25.3	10.2 R	5.62	7.44 R	4.04	3.35	---	---	---	---	1932
1942	---	---	---	---	---	---	6.95	6.62	6.16	---	---	---	---	1942
1943	---	---	---	---	22.4	17.3	8.32	3.93	2.64	2.83	---	---	---	1943
1944	---	---	---	---	6.70	4.92	3.24	1.54	2.35	2.40	---	---	---	1944
1945	---	---	---	19.1	16.8	8.97	8.31	3.52	3.20	4.15 R	---	---	---	1945
1946	---	---	---	39.8	12.3	5.47	7.09	2.10	1.98	3.54	---	---	---	1946
1947	---	---	---	---	51.4	28.1	35.1	7.51	7.34	7.47	---	---	---	1947
1948	---	---	---	---	157	18.8	18.4	13.1	4.43	3.26	---	---	---	1948
1949	---	---	---	14.2 R	6.92	13.9	6.25	4.72	2.46	2.71	---	---	---	1949
1950	---	---	---	---	29.0	12.0	8.68	7.26	3.10	4.07	3.92	2.14	---	1950
1951	1.50	1.64	1.60	36.4	57.2	14.7	9.47	6.56	9.88	13.4	10.1	4.00	13.9	1951
1952	1.92	1.69	1.98	54.8	21.8	8.97	4.77	2.78	3.42	3.57	2.45	1.82	9.12	1952
1953	1.52	1.74	2.66	34.6	28.1	33.6	76.5	44.7	20.8	12.8	12.4	5.85	23.1	1953
1954	3.81	3.09	3.12	39.1	84.6	129	92.9	16.8	19.6	23.8	22.5	8.80	37.3	1954
1955	3.66	3.34	3.24	114	171	66.9	22.0	9.80	4.12	4.62	4.52	2.91	34.4	1955
1956	3.15	1.48	2.76	28.0	187	61.0	25.1	10.6	7.29	6.11	7.58	3.98	28.9	1956
1957	3.09	4.51	5.27	47.9	94.3	14.3	6.84	3.81	2.83	3.10	2.82	2.17	16.0	1957
1958	1.85	1.84	2.51	16.8	6.54	3.32	2.18	1.33	2.26	2.42	3.07	1.57	3.80	1958
1959	1.44	1.10	3.03	23.5	10.4	7.03	7.26	2.34	2.49	3.93	4.60	3.44	5.88	1959
1960	2.48	1.78	2.82	62.6	47.7	22.0	7.75	1.80	1.13	1.76	1.71	1.29	12.9	1960
1961	1.22	1.08	2.13	4.84	4.83	2.35	0.957	0.352	0.582	1.56	1.51	1.42	1.91	1961
1962	0.966	0.586	2.25	28.0 R	24.1 R	5.08 R	1.61 R	1.28 R	1.59 R	1.61 R	2.13 R	2.11	5.95R	1962
1963	0.968	0.916	3.55	16.6	7.21	5.47	4.82	1.71	1.52	2.41	1.76	1.48	4.03	1963
1964	1.70	1.79	2.50	12.0	11.9	3.71	1.66	1.48	1.07	2.10	2.32	1.47	3.64	1964
1965	1.35	1.27	1.41	35.3	23.3	29.4	9.75	4.57	3.55	4.76	3.05	2.30	9.98	1965
1966	2.85	2.04	2.93	67.6	52.8	18.0	16.8	7.49	3.41	2.45	3.00	2.30	15.2	1966
1967	2.32	1.70	2.33	12.5	57.3	14.1	3.82	1.81	0.510	1.22	1.74	1.48	8.47	1967
1968	1.28	1.49	5.78	23.2	5.45	3.60	2.33	1.70	0.233	0.235	0.367	0.550	3.83	1968
1969	0.616	0.756	0.917	14[illegible]	16.8	2.02	2.00	2.09	1.88	1.78	3.86	4.44	4.28	1969
1970	4.17	3.69	3.82	21.[illegible]	48.5	15.7	10.3	4.03	2.58	1.83	2.65	3.80	10.3	1970
1971	3.61	3.59	3.77	5.77	16.5	6.45	12.8	7.84	1.73	4.49	11.7	12.8	7.63	1971
1972	12.6	13.5	13.4	13.8	78.3	46.9	2.91	2.26	3.66	5.23	13.5	15.0	18.4	1972
1973	12.6	9.35	5.61	1.75	1.53	1.39	1.30	1.60	4.37	6.34	9.77	9.48	5.40	1973
1974	8.96	8.90	20.4	26.1	60.7	55.4	48.2	13.9	6.01	6.03	11.6	13.8	23.4	1974
1975	13.4	13.3	13.1	9.80	56.1	40.3	39.6	27.7	7.82	6.86	18.7	18.7	22.2	1975
1976	18.4	15.0	7.15	39.5	51.7	45.8	43.3	22.0	7.52	7.35	9.36	8.51	23.0	1976
1977	7.55	5.13	4.05	1.70	1.59	2.39	3.97	5.77	3.94	3.63	12.3	11.9	5.33	1977
1978	12.1	12.9	8.88	4.56	1.19	0.763	0.605	1.36	3.23	4.90	8.44	6.14	5.37	1978
1979	8.15	9.92	24.3	30.6	53.3	50.3	39.7	5.09	6.31	7.53	10.8	11.4	21.5	1979
1980	11.3	10.6	12.4	6.04	1.50	5.13	5.13	4.55	4.36	4.31	8.05	7.62	6.74	1980
1981	7.09	7.41	2.73	1.78	0.651	0.688	0.662	0.777	2.68	5.57	8.49	7.93	3.85	1981
1982	9.01	6.65	2.35	2.22	0.811	0.697	0.659	0.736	0.879	1.24	7.67	11.2	3.66	1982
MEAN	4.22	3.81 R	4.84 R	38.1 R	51.1 R	24.5 R	18.9 R	8.80 R	5.78 R	6.22 R	7.41 R	5.13	15.1	MEAN

LOCATION - LAT 50 48 35 N DRAINAGE AREA, 19 300 km²
LONG 101 26 10 W REGULATED SINCE 1969

R - REVISED SINCE JAN 1980

REMARKS - DISCHARGE RECORDS PRIOR TO JAN 1958 WERE COLLECTED AT HILLWOOD, APPROX. 13 km DOWNSTREAM

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO. 05ME001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	360 E ON APR 24	---	---	1913
1914	---	131 ON MAY 20	0.566B ON DEC 29	587 000R	1914
1915	---	34.0 ON APR 17	1.27 B ON JAN 1	167 000	1915
1916	---	83.0 ON APR 23	1.27 B ON MAR 1	494 000	1916
1917	---	160 ON MAY 18	0.623B ON DEC 13	650 000	1917
1918	---	48.7 ON APR 5	1.08 B ON JAN 30	291 000	1918
1919	---	50.1 ON APR 20	1.42 B ON FEB 28	330 000	1919
1920	---	203 ON MAY 14	2.27 B ON MAR 3	719 000R	1920
1921	---	138 ON MAY 3	2.15 B ON FEB 21	1 360 000	1921
1922	---	504 ON APR 29 *	3.74 B ON DEC 31	1 820 000	1922
1923	---	411 ON MAY 1	3.06 B ON DEC 31	1 130 000	1923
1924	---	50.7 ON APR 26	2.21 B ON JAN 23	324 000	1924
1925	---	142 ON APR 19	1.95 B ON DEC 28	598 000	1925
1926	---	79.6 ON APR 19	1.47 B ON JAN 15	361 000	1926
1927	---	357 ON APR 26	2.27 B ON MAR 5	1 110 000	1927
1928	---	132 B ON APR 13	2.27 B ON NOV 4	676 000	1928
1929	---	70.8 ON APR 29	1.84 B ON FEB 19	254 000	1929
1930	---	54.9 ON APR 13	1.25 B ON FEB 12	210 000	1930
1931	---	51.8 B ON APR 11	0.708B ON DEC 31	151 000	1931
1932	---	53.2 B ON APR 13	0.595B ON JAN 25	---	1932
1942	---	---	---	---	1942
1943	---	---	2.52 ON SEP 20	---	1943
1944	---	20.8 B ON APR 21	---	---	1944
1945	---	31.1 B ON APR 3	---	---	1945
1946	---	64.8 B ON APR 4	---	---	1946
1947	---	116 ON APR 23	---	---	1947
1948	---	275 ON MAY 4	---	---	1948
1949	---	52.9 RB ON APR 2	---	---	1949
1950	---	75.0 ON APR 27	---	---	1950
1951	---	76.5 ON MAY 15	0.991B ON FEB 28	439 000	1951
1952	---	69.4 B ON APR 12	1.33 B ON FEB 6	288 000	1952
1953	---	88.1 ON JUL 17	1.27 B ON JAN 10	728 000	1953
1954	---	264 ON JUN 25	2.83 B ON JAN 31	1 180 000	1954
1955	---	273 ON MAY 15	2.21 B ON DEC 19	1 080 000	1955
1956	---	224 ON MAY 16	0.793B ON FEB 18	913 000	1956
1957	---	170 ON MAY 3	1.90 B ON DEC 31	503 000	1957
1958	36.2 AT 15:30 CST ON APR 8	35.1 ON APR 8	0.963 ON AUG 21	120 000	1958
1959	50.7 AT 08:30 CST ON APR 8	47.0 ON APR 8	0.623B ON FEB 19	185 000	1959
1960	128 AT 02:30 CST ON APR 29 *	128 ON APR 28	0.864 ON SEP 23	407 000	1960
1961	---	6.37 ON APR 20	0.159 ON AUG 25 *	60 100	1961
1962	---	74.2 E ON APR 24	0.198B ON FEB 8	188 000R	1962
1963	---	21.1 B ON APR 19	0.280B ON MAR 10	127 000	1963
1964	---	19.8 B ON APR 22	0.872 ON SEP 4	115 000	1964
1965	---	75.3 ON APR 21	1.22 B ON FEB 23	315 000	1965
1966	---	118 ON APR 25	1.64 B ON FEB 2	478 000	1966
1967	---	70.2 ON MAY 15	0.215 ON SEP 6	268 000	1967
1968	---	48.4 B ON APR 14	0.164 ON SEP 15	121 000	1968
1969	---	47.3 A ON MAY 4	0.569B ON JAN 1	135 000	1969
1970	59.5 AT 09:43 CST ON MAY 3	59.5 ON MAY 2	1.18 B ON NOV 17	324 000	1970
1971	68.5 AT 19:48 CST ON MAY 14	65.1 ON MAY 14	0.606 ON MAY 4	241 000	1971
1972	112 AT 04:22 CST ON MAY 11	111 ON MAY 10	1.02 ON APR 3	582 000	1972
1973	---	15.1 B ON JAN 15	1.17 ON JUN 13	170 000	1973
1974	71.9 AT 02:23 CST ON MAY 22	71.1 ON MAY 21	5.83 ON OCT 2	739 000	1974
1975	96.6 AT 16:48 CST ON MAY 18	96.3 ON MAY 18	2.97 B ON APR 6	700 000	1975
1976	82.4 AT 06:55 CST ON APR 26	82.1 ON APR 26	6.31 B ON MAR 16	727 000	1976
1977	13.8 AT 16:00 CST ON NOV 7	13.6 ON NOV 7	1.01 ON JUN 8	168 000	1977
1978	---	13.9 B ON FEB 6	0.184 ON AUG 9	170 000	1978
1979	79.6 AT 21:29 CST ON APR 20	66.9 ON MAY 29	3.83 ON AUG 29	678 000	1979
1980	16.9 AT 21:52 CST ON APR 5	15.7 ON APR 5	0.612 ON MAY 23	213 000	1980
1981	10.5B AT 11:35 CST ON DEC 19	10.3 B ON DEC 19	0.422 ON AUG 20	121 000	1981
1982	---	14.5 B ON DEC 10	0.513B ON APR 3	116 000	1982
				477 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD   R - REVISED SINCE JAN 1980

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05OA007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.226	0.133	0.051	0.021	0.002	0.079	0.080	0.745	---	---	---	1959
1960	---	---	0.007	16.2	0.732	0.232	0.031	0	0	0	---	---	---	1960
1961	---	---	0.130	0.702	0.078	0.008	0	0	0	0	---	---	---	1961
1962	---	---	0	2.28	0.106	0.319	0.005	0.003	0.001	0	---	---	---	1962
1963	---	---	0.216	0.356	0.017	1.05	0.387	0.027	0	0	---	---	---	1963
1964	---	---	0	3.18	0.238	0.190	0.048	0.011	0.070	0.029	---	---	---	1964
1965	---	---	0	3.46	3.02	0.918	0.614	0.956	0.825	0.616	---	---	---	1965
1966	---	---	1.41	2.08	1.97	0.282	0.233	0.219	0.114	0.131	---	---	---	1966
1967	---	---	0.015	1.90	1.50	0.495	0	0	0	0	---	---	---	1967
1968	---	---	0.197	0.122	0.022	0.001	0	2.79	3.37	0.313	---	---	---	1968
1969	---	---	0	38.8	5.89	1.13	2.76	0.299	0.074	0.043	---	---	---	1969
1970	---	---	0	6.58	9.58	5.58	2.93	0.938	0.177	0.085	---	---	---	1970
1971	---	---	0	19.9	4.15	3.03	4.69	0.698	0.116	0.280	0.157	0.029	---	1971
1972	0.008	0	4.59	5.48	2.09	1.12	0.121	0.229	0.024	0.019	0.023	0.004	1.14	1972
1973	0	0.005	0.232	0.059	0.131	0.916	0.247	0.018	0.106	0.127	0.055	0.021	0.160	1973
1974	0.004	0.001	0.005	33.8	13.9	3.48	0.358	0.062	0.016	0.014	0.012	0.010	4.28	1974
1975	0.004	0	0.004	9.11	4.23	0.915	0.084	0.001	0.012	0.016	0.010	0.005	1.19	1975
1976	0.007	0.012	0.032	23.4	1.88	0.205	0.039	0.009	0.007	0.006	0	0	2.11	1976
1977	0	0	0.041	0.056	0.135	0.012	0.038	0.001	0.001	0.002	0.003	0.005	0.025	1977
1978	0.005	0.003	0.024	4.43	0.235	0.051	0.215	0.006	0.006	0.007	0.003	0	0.411	1978
1979	0	0	0.001	22.4	9.60	0.840	0.179	0.059	0.047	0.019	0.017	0.011	2.76	1979
1980	0.005	0.001	0.007	1.21	0.012	0.081	0.002	0.068	0.176	0.227	0.293	0.037	0.175	1980
1981	0.009	0.897	1.73	0.538	0.276	0.198	0.058	0.025	0.017	0.043	0.082	0.038	0.323	1981
1982	0.012	0.005	0.343	7.42	2.27	2.53	1.15	0.500	0.332	0.566	0.264	0.099	1.29	1982
MEAN	0.005	0.084	0.384	8.48	2.59	0.984	0.591	0.292	0.232	0.137	0.077	0.022	1.26	MEAN

LOCATION - LAT 49 06 16 N DRAINAGE AREA, 1 520 km²
LONG 99 19 22 W NATURAL FLOW

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05OA007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.83 ON OCT 25	0 ON MAR 1 *	---	1959
1960	---	47.0 ON APR 7	0 E ON MAR 1	---	1960
1961	---	2.12 B ON APR 4	0 B ON MAR 1	---	1961
1962	---	9.63 B ON APR 6	0 B ON MAR 1	---	1962
1963	---	5.52 ON JUN 4	0 ON MAR 1	---	1963
1964	---	15.8 B ON APR 5	0 B ON MAR 1	---	1964
1965	---	17.0 ON APR 13	0 B ON MAR 1	---	1965
1966	---	4.84 B ON MAR 31	0 B ON MAR 1	---	1966
1967	---	6.74 ON APR 27	0 B ON MAR 1	---	1967
1968	---	12.6 ON AUG 25	0 B ON MAR 1	---	1968
1969	---	207 B ON APR 12 *	0 B ON MAR 1	---	1969
1970	---	37.1 ON APR 30	0 B ON MAR 1	---	1970
1971	---	64.6 ON APR 11	0 B ON MAR 1	---	1971
1972	---	30.0 B ON MAR 17	0 B ON JAN 22	36 100	1972
1973	---	7.90 ON JUN 20	0 B ON JAN 1	5 030	1973
1974	---	158 ON APR 19	0.001B ON JAN 10	135 000	1974
1975	45.0 AT 09:30 CST ON APR 29 *	41.6 ON APR 29	0 B ON FEB 3	37 600	1975
1976	---	79.0 B ON APR 4	0 B ON NOV 8	66 600	1976
1977	0.906 AT 07:47 CST ON MAY 22	0.776 ON MAY 22	0 B ON JAN 1	780	1977
1978	---	24.4 B ON APR 6	0 B ON NOV 30	13 000	1978
1979	---	158 B ON APR 22	0 B ON JAN 1	87 000	1979
1980	8.73 B AT 22:39 CST ON APR 5	6.48 B ON APR 6	0 B ON MAR 7	5 540	1980
1981	5.34 B AT 02:05 CST ON FEB 25	4.65 B ON FEB 25	0.004B ON FEB 8	10 200	1981
1982	32.7 B AT 23:19 CST ON APR 12	26.5 B ON APR 13	0.004B ON FEB 16	40 500	1982
MEAN				39 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ043

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	0.011	0.009	0.002	0	---	---	---	---	1961
1962	---	---	---	---	0.110	0.056	0.002	---	---	---	---	---	---	1962
1963	---	---	---	---	0.118	0.093	0.003	0.003	0.002	---	---	---	---	1963
1964	---	---	---	---	0.063	0.008	0.002	0.002	0.002	---	---	---	---	1964
1965	---	---	---	0.011	---	0.062	0.001	0.004	0.103	---	---	---	---	1965
1966	---	---	---	0.081	0.105	0.008	0.003	0.037	0.003	0.003	---	---	---	1966
1967	---	---	---	0.049	0.123	0.056	0.003	0.001	0	0.004	---	---	---	1967
1968	---	---	---	---	0.046	0.025	0.029	0.033	0.018	0.009	---	---	---	1968
1969	---	---	---	0.089	0.068	0.082	0.136	0.027	0.032	0.032	---	---	---	1969
1970	---	---	---	---	0.201	0.192	0.039	0.006	0.014	---	---	---	---	1970
1971	---	---	---	---	0.056	0.176	0.055	0.011	---	---	---	---	---	1971
1972	---	---	---	---	0.109	0.013	0.008	0.008	0.009	---	---	---	---	1972
1973	---	---	---	---	0.029	0.056	0.014	0.033	0.043	0.058	---	---	---	1973
1974	---	---	---	0.148	0.152	0.064	0.007	0.006	0.010	0.011	---	---	---	1974
1975	---	---	---	---	0.106	0.038	0	0.032	0.124	---	---	---	---	1975
1976	---	---	---	0.094	0.033	0.020	0.019	0	0	---	---	---	---	1976
1977	---	---	---	---	0.027	0.013	0.059	---	0.047	0.025	---	---	---	1977
1978	---	---	---	---	0.044	0.003	0	0	0.007	0.006	---	---	---	1978
1979	---	---	---	---	0.122	0.109	0.009	0.008	0.006	0.005	---	---	---	1979
1980	---	---	---	---	---	0.021R	0.050R	0.097R	0.010R	---	---	---	---	1980
1981	---	---	---	---	0.022	0.030	0	0	0.001	---	---	---	---	1981
MEAN	---	---	---	0.079	0.085	0.054R	0.021R	0.016R	0.023R	0.017	---	---	---	MEAN

LOCATION - LAT 50 42 16 N
LONG 99 40 00 W

DRAINAGE AREA, 2.36 km^2
REGULATED SINCE 1961

DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

R - REVISED SINCE JAN 1980

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ043

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	---	---	1961
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	---	---	---	---	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	---	---	---	1977
1978	---	---	---	---	1978
1979	0.158 AT 23:33 CST ON MAY 18 *	0.158 ON MAY 18 *	---	---	1979
1980	---	---	---	---	1980
1981	0.122 AT 09:15 CST ON JUN 16	0.119 ON JUN 16	0 ON JUL 5 *	---	1981
MEAN				---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BARRINGTON RIVER BELOW FIRST RAPIDS - STATION NO. 06EB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	---	---	22.4	20.5	15.6	11.6	---	---	---	1974
1975	---	---	---	---	17.2	30.1	31.6	24.5	15.4	12.3	---	---	---	1975
1976	---	---	---	---	---	---	---	---	16.0	13.5	11.8	10.2	---	1976
1977	8.49	6.93	5.58	11.1	22.0	34.5	32.4	21.4	15.3	12.9	12.0	9.51	16.1	1977
1978	7.48	5.74	4.50	4.49	12.3	15.6	---	---	---	27.4	19.8	14.2	---	1978
1979	10.5	7.41	6.01	5.07	7.73	10.3	8.66	8.23	9.44	8.92	7.79	6.86	8.07	1979
1980	5.82	4.93	4.16	5.38	7.06	12.0	20.3	31.7	32.7	31.0	23.2	16.3	16.2	1980
1981	12.5	9.17	7.06	5.80	12.4	11.1	8.90	6.92	4.78	5.08	5.09	4.35	7.77	1981
1982	3.19	2.81	2.48	2.19	19.9	24.4	19.2	20.3	14.1	9.74	7.34	6.71	11.1	1982
MEAN	8.00	6.17	4.97	5.67	14.1	19.7	20.5	19.1	15.4	14.7	12.4	9.73	11.8	MEAN

LOCATION - LAT 56 45 50 N
LONG 99 58 25 W

DRAINAGE AREA, 1 770 km^2
NATURAL FLOW

BARRINGTON RIVER BELOW FIRST RAPIDS - STATION NO. 06EB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	---	---	---	1974
1975	36.2 AT 16:49 CST ON JUN 30	35.7 ON JUN 30	---	---	1975
1976	---	---	---	---	1976
1977	38.2 AT 09:20 CST ON JUN 14	37.9 ON JUN 17	5.01 ON APR 1	507 000	1977
1978	---	---	---	---	1978
1979	12.4 AT 03:10 CST ON JAN 1	12.3 ON JAN 1	4.71 ON APR 10	255 000	1979
1980	38.4 AT 22:31 CST ON AUG 2 *	38.4 ON AUG 2 *	3.85 ON APR 13	514 000	1980
1981	19.2 AT 09:56 CST ON MAY 15	19.0 ON MAY 16	3.56 ON OCT 5	245 000	1981
1982	31.4 AT 12:00 CST ON MAY 7	31.4 ON MAY 7	1.73 ON APR 7 *	350 000	1982
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		374 000	MEAN

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	0.001	3.50	0.103	0.034	0	0	0	0	---	---	0.446	1976
1977	---	---	0.001	0.032	0.037	0.005	0.033	0	0.004	0.021	---	---	0.017	1977
1978	---	---	0	0.805	0.076	0.033	0.099	0.001	0.013	0.002	---	---	0.127	1978
1979	---	---	0	5.54	2.86	0.471	0.008	0	0	0	---	---	1.10	1979
1980	---	---	0	0.173	0.004	0	0	0.336	0.004	0.003	---	---	0.065	1980
1981	---	---	0.038	0.062	0.115	0.257	0	0	0	0.158	---	---	0.079	1981
1982	---	---	0.047	0.611	0.537	0.154	0.053	0.009	0	0.011	---	---	0.177	1982
MEAN	---	---	0.012	1.53	0.533	0.136	0.028	0.049	0.003	0.028	---	---	0.287	MEAN

LOCATION - LAT 50 04 00 N DRAINAGE AREA, 275 km^2
LONG 98 37 40 W NATURAL FLOW

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	24.1 B AT 20:30 CST ON APR 5	17.0 B ON APR 5	0B ON MAR 1 *	9 450	1976
1977	1.07 AT 20:44 CST ON MAY 14	0.425 ON JUL 11	0B ON MAR 1	356	1977
1978	6.99B AT 12:37 CST ON APR 20	2.92 B ON APR 20	0B ON MAR 1	2 690	1978
1979	45.0 AT 01:41 CST ON APR 23 *	43.1 ON APR 23 *	0B ON MAR 1	23 300	1979
1980	7.46 AT 07:02 CST ON AUG 21	4.96 ON AUG 21	0B ON MAR 1	1 380	1980
1981	1.02 AT 02:39 CST ON JUN 2	0.679 ON JUN 2	0B ON MAR 1	1 660	1981
1982	1.79 AT 22:23 CST ON MAY 19	1.66 ON MAY 19	0B ON MAR 1	3 740	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 080	MEAN

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.51	1.14	0.073	0	0.001	0	0	---	---	0.583	1974
1975	---	---	0	0.644	0.169	0.035	0.005	0.006	0.009	0.007	---	---	0.108	1975
MEAN	---	---	0	2.08	0.655	0.054	0.003	0.004	0.005	0.004	---	---	0.346	MEAN

LOCATION - LAT 50 03 37 N DRAINAGE AREA, 257 km^2
LONG 98 41 45 W NATURAL FLOW

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	16.4 B ON APR 18 *	0B ON MAR 1 *	12 300	1974
1975	---	2.57B ON APR 12	0B ON MAR 1	2 290	1975
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 300	MEAN

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.801	6.07	7.56	2.46	1.82	2.19	1.28	---	---	---	1954
1955	---	---	---	2.12	3.20	0.688	0.659	0.241	0.236	0.484	---	---	---	1955
1956	---	---	---	0.478	2.83	1.76	2.15	1.78	0.926	0.444	---	---	---	1956
1957	---	---	0.203	0.890	2.87	1.59	1.37	0.923	1.35	0.660	---	---	1.23	1957
1958	---	---	0.193	1.09	1.23	0.798	5.30	0.909	0.562	0.681	---	---	1.35	1958
1959	---	---	0.178	0.536	1.73	1.85	1.03	0.320	3.31	1.52	---	---	1.30	1959
1960	---	---	0.380	0.676	3.54	3.02	1.45	0.751	0.317	0.334	---	---	1.30	1960
1961	---	---	0.232	0.289	0.513	0.233	0.153	0.131	0.136	0.170	---	---	0.233	1961
1962	---	---	0.059	0.354	1.36	0.307	0.135	0.183	0.404	0.243	---	---	0.383	1962
1963	---	---	0.094	1.42	1.93	2.35	0.858	0.648	0.699	0.458	---	---	1.05	1963
1964	---	---	---	0.502	2.05	0.615	0.376	1.70	2.17	0.752	---	---	---	1964
1966	---	---	0.147	0.313	2.63	3.10	2.98	2.06	1.83	1.62	---	---	1.84	1966
1967	---	---	0.131	0.231	4.79	2.51	1.25	0.495	0.260	0.570	---	---	1.28	1967
1968	---	---	0.212	0.387	1.55	2.65	---	---	---	---	---	---	---	1968
1969	---	---	0.227	1.44	0.910	1.56	1.58	0.690	0.511	1.80	---	---	1.09	1969
1970	---	---	0.160	0.502	5.65	2.17	1.92	1.22	1.49	2.88	---	---	2.01	1970
1971	---	---	0.281	2.27	1.90	3.09	1.86	1.19	0.693	1.25	---	---	1.56	1971
1972	---	---	0.221	1.22	4.19	1.57	1.48	0.901	0.463	0.370	---	---	1.30	1972
1973	---	---	0.237	0.179	2.34	6.33	2.79	0.801	0.992	0.881	---	---	1.81	1973
1974	---	---	0.179	1.34	6.19	3.14	1.59	1.03	1.73	1.29	---	---	2.06	1974
1975	---	---	0.289	0.925	3.50	2.48	1.43	1.42	1.74	1.41	---	---	1.65	1975
1976	---	---	0.234	1.26	0.771	2.16	0.998	0.612	0.257	0.281	---	---	0.817	1976
1977	---	---	0.261	0.996	0.591	0.319	---	1.53	2.85	1.67	---	---	---	1977
1978	---	---	0.249	0.593	1.90	0.889	0.822	0.384	0.713	0.919	---	---	0.809	1978
1979	---	---	0.255	0.467	5.27	5.11	1.66	0.689	0.348	0.391	---	---	1.77	1979
1980	---	---	0.194	0.957	0.392	0.374	0.378	1.43	1.42	1.24	---	---	0.796	1980
1981	---	---	0.166	0.678	0.751	1.98	1.23	1.27	1.11	1.58	---	---	1.09	1981
1982	---	---	0.225	0.531	1.14	1.72	3.75	1.60	1.09	0.944	---	---	1.38	1982
MEAN	---	---	0.207	0.837	2.56	2.21	1.60	0.987	1.10	0.967	---	---	1.28	MEAN

LOCATION - LAT 52 36 10 N   DRAINAGE AREA, 170 km²
LONG 101 02 15 W   REGULATED SINCE 1955

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	14.4 ON MAY 23	---	---	1954
1955	---	8.69 ON MAY 7	---	---	1955
1956	---	6.71 ON MAY 16	---	---	1956
1957	---	6.12 ON MAY 3	0.198B ON MAR 1	26 100	1957
1958	126 AT 03:00 CST ON JUL 6 *	45.9 ON JUL 6 *	0.170B ON MAR 1	28 600	1958
1959	14.2 AT 22:00 CST ON SEP 2	11.6 A ON JUN 28	0.142B ON MAR 1	27 600	1959
1960	8.72 AT 06:30 CST ON JUN 21	8.07 ON MAY 13	0.255A ON APR 8	27 600	1960
1961	0.855 AT 01:00 CST ON MAY 20	0.810 ON MAY 13	0.125 ON AUG 15	4 920	1961
1962	---	2.92 ON MAY 3	0 E ON MAR 1 *	8 070	1962
1963	7.59 AT 07:00 CST ON JUN 13	6.40 ON JUN 13	0.085E ON MAR 1	22 300	1963
1964	---	6.80 ON AUG 11	---	---	1964
1966	9.40 AT 17:15 CST ON AUG 28	6.09 ON JUL 16	0.119B ON MAR 1	38 900	1966
1967	13.7 AT 12:00 CST ON MAY 26	13.0 ON MAY 26	0.113B ON MAR 1	27 100	1967
1968	---	---	---	---	1968
1969	---	12.6 ON OCT 3	0.227B ON MAR 1	23 000	1969
1970	---	14.4 ON MAY 18	0.136B ON MAR 1	42 500	1970
1971	---	11.0 ON JUN 6	0.227B ON MAR 28	33 000	1971
1972	---	11.0 ON MAY 3	0.170B ON OCT 31	27 600	1972
1973	---	39.6 ON JUN 19	0.085B ON APR 10	38 300	1973
1974	---	21.8 ON MAY 22	0.164B ON MAR 1	43 700	1974
1975	---	8.50 A ON MAY 7	0.289B ON MAR 1	34 900	1975
1976	---	9.51 A ON JUN 14	0.210B ON OCT 29	17 300	1976
1977	---	8.07 E ON SEP 26	---	---	1977
1978	5.66 AT 00:01 CST ON MAY 3	5.10 ON MAY 3	0.210 ON AUG 31	17 100	1978
1979	---	18.2 E ON MAY 27	0.221B ON MAR 1	37 400	1979
1980	---	2.80 A ON SEP 4	0.170 ON AUG 2	16 800	1980
1981	7.51 AT 23:43 CST ON JUN 4	5.77 ON JUN 24	0.124B ON MAR 1	23 200	1981
1982	44.5 AT 13:15 CST ON JUL 17	21.1 ON JUL 18	0.136 ON MAY 19	29 200	1982
MEAN				27 100	MEAN

A - MANUAL GAUGE   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)   E - ESTIMATED

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO. 05RD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	---	---	60.8	44.4	67.9	82.8	---	1914
1915	65.6	49.3	38.6	36.5	115	227	118	68.1	46.6	37.7	36.5	51.1	74.3	1915
1916	53.9	45.8	38.7	37.7	104	258	217	162	94.1	68.7	67.5	68.4	101	1916
1917	52.9	44.2	41.5	30.9	34.5	41.2	68.7	139	255	---	---	---	---	1917
1918	---	---	---	---	---	---	---	263	216	---	---	---	---	1918
1919	---	---	---	---	---	---	---	---	---	77.1	92.4	88.6	---	1919
1920	66.3	49.5	37.2	36.3	94.2	250	258	130	75.4	51.2	47.7	52.4	95.9	1920
1921	47.6	40.6	34.5	34.4	97.8	368	319	147	95.2	123	178	145	136	1921
1922	96.0	68.6	51.5	53.8	171	271	178	162	127	80.9	56.0	50.5	114	1922
1923	49.9	43.5	35.6	---	---	---	---	---	---	---	---	---	---	1923
MEAN	61.7	48.8	39.7	38.3	103	236	193	153	121	69.0	78.0	77.0	104	MEAN

LOCATION - LAT 52 03 00 N   DRAINAGE AREA, 16 300 km²
LONG 95 28 00 W   NATURAL FLOW

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO. 05RD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	261 ON JUN 3	32.8 ON NOV 10	2 340 000	1915
1916	---	279 ON JUN 17	34.3 ON APR 12	3 210 000	1916
1917	---	300 ON SEP 29	29.2 ON APR 23 *	---	1917
1918	---	---	---	---	1918
1919	---	---	---	---	1919
1920	---	320 ON JUL 7	32.6E ON APR 3	3 030 000	1920
1921	---	428 ON JUN 21 *	31.1 ON APR 14	4 300 000	1921
1922	---	309 ON JUN 4	48.7E ON APR 14	3 600 000	1922
1923	---	52.4 ON JAN 7	31.1 ON MAR 31	---	1923
MEAN				3 300 000	MEAN

E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. 05RD007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	75.9	44.7	24.1	12.8	7.84	5.86	---	1957
1958	5.68	6.16	5.55	6.41	11.3	24.8	34.1	35.2	31.2	22.9	24.0	28.8	19.8	1958
1959	25.7	19.7	12.1	11.4	87.1	217	131	59.6	34.9	25.6	35.8	29.4	57.6	1959
1960	21.6	15.1	10.4	9.67	21.9	65.0	59.9	31.9	23.8	24.6	20.6	16.6	26.8	1960
1961	15.1	13.0	10.5	10.2	16.7	32.5	27.8	16.6	8.45	5.52	4.91	6.74	14.0	1961
1962	10.1	9.29	7.29	5.84	7.42	45.1	59.8	35.8	25.7	37.4	36.6	34.0	26.3	1962
1963	28.0	18.9	12.0	12.4	49.1	107	96.8	52.1	26.2	11.6	8.08	6.99	35.9	1963
1964	6.71	6.48	6.03	5.95	28.5	76.3	55.6	31.8	22.2	16.8	20.5	23.5	25.1	1964
1965	22.5	18.9	10.7 R	12.0 R	21.1 R	67.2R	90.4R	50.9R	37.2 R	35.9 R	40.0 R	33.5 R	36.8R	1965
1966	23.9 R	16.9	12.4	10.3	18.2	77.6	138	86.4	42.9	18.3	12.5	13.5	39.4R	1966
1967	14.2	13.0	9.47	10.9	25.3	109	124	66.3	33.5	18.9	12.3	4.74	37.0	1967
1968	7.61	7.58	6.26	5.86	11.4	51.2	131	123	116	116	107	84.8	64.3	1968
1969	58.8	43.2	32.4	30.9	53.5	94.2	96.0	127	129	191	149	79.7	90.7	1969
1970	47.8	32.7	21.9 R	18.1 R	25.1 R	35.0R	71.9	52.8	38.3	31.6 R	36.3 R	58.1 R	39.2R	1970
1971	59.7	43.4	23.7 R	30.2 R	76.6	110	64.4	54.3	49.9	39.3	29.0 R	23.9 R	50.4R	1971
1972	23.1	21.1	16.5	18.6	55.3	101	72.3	38.7	24.5 R	20.7 R	21.0 R	25.4	36.6R	1972
1973	21.8	17.9 R	15.6 R	19.5 R	32.6	52.1	57.1	38.0	30.4	37.8	46.0	53.8	35.3R	1973
1974	39.5	28.1 R	21.1 R	24.3 R	59.8	139	114	54.9	48.0	64.5	53.4	39.0	57.2R	1974
1975	27.4	21.4	16.7 R	18.0 R	36.8	77.9	95.3	89.8	75.0	55.9	36.3	24.1	48.1R	1975
1976	19.9	16.4	13.7	28.9 R	38.0	40.4	34.7	21.1R	13.3 R	9.10R	6.88R	5.26	20.6R	1976
1977	4.95	4.89	5.03	7.56	9.61	12.6	24.5	24.7	53.3	82.6	64.0	39.9	27.9	1977
1978	24.9	18.2	14.9	17.3	36.1	46.6	76.7	103	98.7	88.6	60.3	41.9	52.5	1978
1979	29.5	21.8	16.7	24.6	74.4	180	98.8	47.1	38.0	35.0	32.9	31.3	52.6	1979
1980	29.8	25.4	19.0	20.0	27.3	38.4	43.4	29.7	32.9	24.2	19.5	21.5	27.6	1980
1981	17.9	14.2	11.5	13.1	18.1	27.4	48.3	41.3	29.7	29.8	31.9	32.5	26.4	1981
1982	29.5	23.1	18.8	23.6	58.5	128	123	68.7	40.9	32.2	23.7	20.1	49.3	1982
MEAN	24.6 R	19.1 R	14.0 R	15.8 R	36.0 R	78.2R	78.6R	54.8R	43.4 R	41.9 R	36.2 R	30.2 R	39.9	MEAN

LOCATION - LAT 52 12 10 N
LONG 96 06 10 W   NATURAL FLOW

R - REVISED SINCE JAN 1980

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. 05RD007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	36.2 ON AUG 11	4.90 ON MAR 27	623 000	1958
1959	---	248 ON JUN 9 *	9.57 ON APR 9	1 810 000	1959
1960	---	79.6 ON JUN 23	8.30 ON APR 19	847 000	1960
1961	---	35.1 ON JUN 16	4.81 ON NOV 5	442 000	1961
1962	---	68.8 ON JUN 29	4.59 ON MAY 1	830 000	1962
1963	---	127 ON JUN 25	6.97 ON DEC 9	1 130 000	1963
1964	---	81.3 ON JUN 11	5.95 ON MAR 19	793 000	1964
1965	---	118 R ON JUL 1	8.83 ON MAR 20	1 160 000R	1965
1966	---	152 ON JUL 5	9.54 ON APR 19	1 240 000R	1966
1967	---	175 ON JUN 23	3.74 ON DEC 8 *	1 170 000	1967
1968	---	144 ON JUL 21	5.27 ON APR 7	2 030 000	1968
1969	---	206 E ON OCT 19	27.7 B ON APR 8	2 860 000	1969
1970	---	77.0E ON JUL 12	16.7 R ON APR 15	1 240 000R	1970
1971	126 AT 17:00 CST ON JUN 3	126 ON JUN 5	18.6 R ON APR 6	1 590 000R	1971
1972	109 AT 21:12 CST ON JUN 13	108 ON JUN 14	12.9 E ON APR 9	1 160 000R	1972
1973	68.5 AT 16:17 CST ON JUL 3	68.2 ON JUL 3	14.7 R ON MAR 21	1 110 000R	1973
1974	173 AT 10:10 CST ON JUN 25	170 ON JUN 23	17.6 R ON APR 13	1 800 000R	1974
1975	107 AT 11:18 CST ON JUN 30	106 ON JUL 1	14.9 E ON MAR 25	1 520 000R	1975
1976	---	43.3 ON JUL 1	5.04E ON DEC 31	653 000R	1976
1977	86.4 AT 18:20 CST ON OCT 19	86.1 ON OCT 19	4.87 ON JAN 30	880 000	1977
1978	108 AT 10:43 CST ON AUG 17	108 ON AUG 17	14.4 B ON MAR 23	1 660 000	1978
1979	199 AT 21:12 CST ON JUN 14 *	198 ON JUN 11	15.9 B ON MAR 21	1 660 000	1979
1980	47.5 AT 12:17 CST ON JUL 6	46.9 ON JUL 6	16.4 B ON APR 5	872 000	1980
1981	55.6 AT 11:48 CST ON JUL 6	50.4 ON JUL 4	10.7 B ON MAR 25	833 000	1981
1982	152 AT 19:21 CST ON JUN 25	151 ON JUN 24	16.8 B ON APR 12	1 560 000	1982
MEAN				1 260 000R	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED   R - REVISED SINCE JAN 1980

BIG GRASS RIVER NEAR GLENELLA - STATION NO. 05LL015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.22	3.52	1.85	0.480	0.267	2.69	0.712	---	---	1.70	1965
1966	---	---	0.780	8.60	5.69	1.22	0.410	0.499	0.130	0.054	---	---	2.16	1966
1967	---	---	0.002	10.0	5.03	0.497	0.412	0.041	0	0	---	---	1.98	1967
1968	---	---	0.459	2.72	2.54	0.465	0.534	1.33	0.740	0.318	---	---	1.14	1968
1969	---	---	0	21.1	3.29	2.51	5.65	0.540	0.206	0.227	---	---	4.14	1969
1970	---	---	0	12.1	24.3	2.08	1.25	0.052	0.001	0.210	---	---	5.00	1970
1971	---	---	0.001	4.88	1.09	8.35	6.17	0.165	0.049	1.01	---	---	2.69	1971
1972	---	---	1.24	14.1	3.73	0.499	0.039	0	0	0	---	---	2.42	1972
1973	---	---	0.336	0.351	0.384	0.593	0.013	0	0.021	0.002	---	---	0.211	1973
1974	---	---	0	15.6	14.3	1.81	0.106	0	0	0	---	---	3.96	1974
1975	---	---	0	2.73	3.21	1.68	0.326	3.65	23.1	5.12	---	---	4.93	1975
1976	---	---	0.168	51.5	2.48	1.04	0.227	0	0	0	---	---	6.79	1976
1977	---	---	0	0.271	0.373	0.144	0.141	0	0.248	0.137	---	---	0.164	1977
1978	---	---	0	3.02	1.44	0.400	0.048	0	0.014	0.013	---	---	0.611	1978
1979	---	---	0	20.6	22.0	2.40	0.225	0.013	0.005	0.001	---	---	5.62	1979
1980	---	---	0	1.14	0.098	0.002	0	2.64	1.82	0.729	---	---	0.801	1980
1981	---	---	0.621	0.744	0.486	0.664	0.225	0.094	0.003	0.159	---	---	0.373	1981
1982	---	---	0.039	7.74	1.63	0.412	0.751	0.187	0.005	0.185	---	---	1.35	1982
MEAN	---	---	0.203	10.1	5.31	1.48	0.945	0.527	1.61	0.493	---	---	2.56	MEAN

LOCATION - LAT 50 30 22 N DRAINAGE AREA, 1 050 km²
LONG 98 58 15 W NATURAL FLOW

BIG GRASS RIVER NEAR GLENELLA - STATION NO. 05LL015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	15.0 ON APR 16	0B ON MAR 1 *	36 000	1965
1966	---	26.9 ON APR 3	0B ON MAR 1	45 800	1966
1967	---	41.9 ON APR 17	0B ON MAR 1	41 900	1967
1968	---	7.70 ON MAY 16	0B ON MAR 1	24 100	1968
1969	---	83.5 ON APR 14	0B ON MAR 1	87 600	1969
1970	---	106 ON APR 30	0B ON MAR 1	106 000	1970
1971	---	38.2 ON JUL 2	0 ON AUG 17	57 000	1971
1972	---	28.6 ON APR 15	0 ON JUL 9	51 300	1972
1973	3.94 AT 14:42 CST ON JUN 20	3.57 ON JUN 20	0 ON JUL 9	4 480	1973
1974	69.7 B AT 17:45 CST ON APR 20	63.1 ON APR 21	0B ON MAR 1	83 700	1974
1975	80.7 AT 17:33 CST ON SEP 23	78.4 ON SEP 23	0B ON MAR 1	104 000	1975
1976	112 AT 08:19 CST ON APR 10 *	111 ON APR 10 *	0 ON AUG 4	143 000	1976
1977	2.44 AT 00:57 CST ON SEP 27	2.30 ON SEP 27	0B ON MAR 1	3 460	1977
1978	9.00 AT 17:00 CST ON APR 25	8.92 ON APR 25	0B ON MAR 1	12 900	1978
1979	98.8 AT 14:09 CST ON APR 26	97.2 ON APR 26	0B ON MAR 1	119 000	1979
1980	19.5 AT 10:36 CST ON AUG 22	19.0 ON AUG 22	0B ON MAR 1	17 000	1980
1981	---	1.32B ON APR 4	0 ON SEP 11	7 900	1981
1982	26.0 AT 00:03 CST ON APR 16	25.5 ON APR 16	0B ON MAR 1	28 700	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		54 100	MEAN

BIRCH RIVER AT BIRCH RIVER - STATION NO. 05LE003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	6.43	4.08	1.36	1.02	1.59	0.697	---	---	---	1954
1955	---	---	---	2.10	2.37	0.605	0.336	0.334	0.273	0.377	---	---	---	1955
1956	---	---	0.255	0.340	3.89	1.57	1.63	0.259	0.206	0.239	---	---	1.05	1956
1957	---	---	0.129	1.04	3.07	0.680	0.363	0.377	0.664	0.299	---	---	0.828	1957
1958	---	---	0.156	0.839	0.868	0.519	2.55	0.184	0.203	0.279	---	---	0.701	1958
1959	---	---	0.028	0.899	1.19	1.01	0.557	0.180	0.573	0.498	---	---	0.615	1959
1960	---	---	0.231	0.856	3.19	1.72	0.614	0.871	0.132	0.057	---	---	0.959	1960
1961	---	---	0.028	0.043	0.306	0.185	0.151	0.134	0.108	0.116	---	---	0.134	1961
1962	---	---	0	0.180	0.627	0.263	0.213	0.219	0.420	0.311	---	---	0.279	1962
1963	---	---	0	0.294	1.97	2.10	0.527	0.285	0.324	0.357	---	---	0.730	1963
1964	---	---	---	0.488	1.27	0.311	0.565	0.778	0.474	0.464	---	---	---	1964
1965	---	---	0	0.796	3.50	4.23	1.11	0.537	1.89	0.832	---	---	1.60	1965
1966	---	---	0.170	0.374	3.34	1.99	1.78	1.80	2.01	---	---	---	---	1966
1967	---	---	0.234	0.238	5.56	1.26	0.156	0.126	0.099	0.388	---	---	1.01	1967
1968	---	---	0.208	0.409	0.868	1.94	2.71	2.69	0.814	0.561	---	---	1.28	1968
1969	---	---	0.249	2.09	0.912	0.682	0.945	0.490	0.380	2.69	---	---	1.06	1969
1970	---	---	0.090	0.419	3.68	1.80	1.53	0.339	0.248	1.21	---	---	1.17	1970
1971	---	---	0.190	1.61	1.16	1.93	0.618	0.358	0.214	0.472	---	---	0.814	1971
1972	---	---	0.215	0.927	4.56	0.715	0.890	0.260	0.253	0.262	---	---	1.01	1972
MEAN	---	---	0.136	0.775	2.57	1.45	0.980	0.592	0.572	0.562	---	---	0.883	MEAN

LOCATION - LAT 52 22 54 N DRAINAGE AREA, 131 km²
LONG 101 06 02 W NATURAL FLOW

BIRCH RIVER AT BIRCH RIVER - STATION NO. 05LE003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	5.91 ON MAY 3	---	---	1955
1956	---	10.1 ON MAY 18	0.142 ON AUG 19	22 300	1956
1957	---	8.16 ON MAY 1	0.113B ON MAR 1	17 500	1957
1958	---	15.1 ON JUL 6	0.113 ON AUG 15	14 900	1958
1959	---	4.81 ON APR 28	0.028B ON MAR 1	13 000	1959
1960	---	6.06 ON MAY 24	0.057 ON SEP 13	20 300	1960
1961	---	0.368 ON MAY 6	0.028B ON MAR 1	2 840	1961
1962	---	2.23 ON MAY 1	0 B ON MAR 1 *	5 910	1962
1963	---	4.64 ON JUN 15	0 B ON MAR 1	15 500	1963
1964	---	3.48 ON MAY 11	---	---	1964
1965	---	10.1 ON JUN 3	0 B ON MAR 1	34 000	1965
1966	---	10.5 ON AUG 30	---	---	1966
1967	---	15.4 ON MAY 26	0.011 ON JUL 11	21 500	1967
1968	---	20.2 ON JUL 30 *	0.170B ON MAR 16	27 000	1968
1969	---	6.74 ON OCT 4	0.227 ON SEP 19	22 300	1969
1970	---	8.44 ON MAY 7	0.008B ON MAR 1	24 700	1970
1971	---	5.89 ON JUN 10	0.176 ON SEP 25	17 200	1971
1972	---	10.9 ON MAY 2	0.176 ON OCT 31	21 500	1972
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		18 700	MEAN

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. 05LE010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.231	0.199	1.99	4.44	0.737	0.202	0.490	0.543	---	---	1.10	1973
1974	---	---	0.161	1.40	5.44	1.75	0.856	0.870	1.27	0.712	---	---	1.56	1974
1975	---	---	0.238	0.972	3.87	2.42	0.819	0.435	0.704	0.767	---	---	1.28	1975
1976	---	---	0.219	1.27	0.598	1.79	0.710	0.421	0.224	0.276	---	---	0.684	1976
1977	---	---	0.209	0.892	0.508	0.285	---	1.06	2.52	1.06	---	---	---	1977
1978	---	---	0.173	0.822	1.37	0.728	0.671	0.189	0.684	0.577	---	---	0.652	1978
1979	---	---	0.103	0.654	6.41	2.92	0.380	0.123	0.218	0.415	---	---	1.41	1979
1980	---	---	0.072	0.800	0.337	0.322	0.377	2.46	2.00	0.912	---	---	0.908	1980
1981	---	---	0.230	0.851	1.10	0.988	1.00	2.27	0.600	2.15	---	---	1.15	1981
1982	---	---	0.098	0.776	1.21	1.08	2.19	0.475	0.311	0.777	---	---	0.866	1982
MEAN	---	---	0.182	0.864	2.28	1.67	0.860	0.851	0.902	0.819	---	---	1.07	MEAN

LOCATION - LAT 52 22 25 N DRAINAGE AREA, 136 km^2
LONG 101 05 00 W NATURAL FLOW

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. 05LE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	10.6 AT 02:39 CST ON JUN 4	10.2 ON JUN 4	0.099B ON APR 18	23 200	1973
1974	12.8 AT 04:34 CST ON MAY 22	11.8 ON MAY 22	0.142 ON AUG 11	33 000	1974
1975	8.47 AT 01:18 CST ON MAY 8	7.90 ON MAY 8	0.153 ON JUL 30	27 100	1975
1976	5.04 AT 17:20 CST ON JUN 26	4.90 ON JUN 26	0.133 ON AUG 8	14 500	1976
1977	5.49 AT 18:02 CST ON SEP 25	4.76 ON SEP 26	---	---	1977
1978	3.37 AT 19:14 CST ON APR 29	2.73 ON MAY 2	0.108 ON AUG 29	13 800	1978
1979	22.8 AT 03:15 CST ON MAY 26 *	21.0 ON MAY 26 *	0 ON SEP 17 *	30 800	1979
1980	11.1 AT 09:12 CST ON SEP 4	7.33 ON SEP 4	0.056B ON MAR 1	19 200	1980
1981	8.83 AT 22:35 CST ON AUG 4	7.63 ON AUG 4	0.053 ON SEP 10	24 400	1981
1982	15.9 AT 21:40 CST ON JUL 17	11.5 ON JUL 18	0 ON JUL 1	18 300	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		22 600	MEAN

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. 05PJ001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	26.1	17.8	5.43	2.74	2.07	1.54	1.98	1.75	---	1960
1961	1.87	1.68	---	---	9.15	5.91	2.63	1.47	0.638	0.397	1.13	1.59	---	1961
1962	1.92	1.84	1.52	3.13	14.0	17.6	12.2	11.4	14.3	7.07	4.22	6.46	9.04	1962
1963	4.11	4.33	---	11.2	17.2	15.7	12.4	5.83	5.29	4.55	1.96	1.79	---	1963
1964	1.33	1.83	2.28	6.44	26.4	11.7	3.95	2.79	11.0	10.0	3.43	3.11	11.7	1964
1965	3.62	2.97	1.90	8.06	28.4	14.9	8.34	3.81	2.16	2.67	4.01	4.57	13.3	1965
1966	4.20	3.87	3.96	9.00	20.2	16.7	6.98	2.71	2.92	2.14	2.45	2.96	12.5	1966
1967	3.40	3.54	3.08	9.96	22.2	11.1	4.97	2.69	0.813	0.213	0.172	0.208	11.6	1967
1968	0.450	0.605	0.685	2.62	5.61	10.4	9.13	6.11	8.86	8.49	8.74	6.35	4.79	1968
1969	4.81	4.79	3.78	8.19	9.99	6.77	7.36	5.19	4.43	9.62	7.81	5.41	7.18	1969
1970	4.32	3.80	3.40	4.62	19.3	21.6	9.43	5.26	4.47	6.58	10.2	8.46	12.2	1970
1971	5.74	4.24	3.28	9.40	16.8	8.12	4.45	1.89	1.66	1.93	4.35	4.78	9.40	1971
1972	3.98	3.36	3.03	5.60	12.6	7.71	3.92	2.80	2.38	3.04	4.33	4.51	7.24	1972
1973	3.73	3.01	2.68	6.42	8.39	7.30	7.13	7.30	11.1	13.6	11.8	8.21	6.19	1973
1974	5.29	4.67	3.93	10.2	47.5	29.6	8.11	4.22	11.2	7.52	4.66	3.72	22.9	1974
1975	3.06	3.04	2.89	4.74	13.2	10.1	6.31	2.97	2.05	1.61	1.10	0.976	7.74	1975
1976	1.28	1.57	1.86	6.94	11.5	10.9	7.49	2.17	0.617	0.140	0.081	0.101	7.78	1976
1977	0.106	0.199	0.318	0.594	1.59	5.82	8.71	5.52	10.2	8.71	5.73	5.44	2.06	1977
1978	4.48	3.51	2.64	5.73	18.6	14.7	12.3	6.94	3.72	2.00	1.15	0.917	10.4	1978
1979	---	---	1.14	5.18	22.2	16.9	7.05	3.60	1.73	0.876	---	---	11.3	1979
1980	---	---	2.10	5.62	8.33	4.22	1.78	0.923	0.958	2.71	---	---	5.07	1980
1981	---	---	1.83	2.09	2.27	4.10	---	---	---	---	---	---	2.56	1981
1982	---	---	1.77	4.68	10.6	11.3	---	---	---	---	---	---	7.09	1982
MEAN	3.21	2.94	2.40	6.21	16.2	12.2	7.15	4.21	4.88	4.54	4.17	3.75	9.10	MEAN

LOCATION - LAT 50 27 46 N DRAINAGE AREA, 1 070 km^2
LONG 95 24 50 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. 05PJ001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	30.9 E ON JUN 2	---	---	1960
1961	---	---	---	---	1961
1962	---	23.8 ON JUN 1	1.44 E ON MAR 1	95 300	1962
1963	---	19.9 ON MAY 24	---	---	1963
1964	---	33.7 ON MAY 12	1.98 E ON MAR 1	124 000	1964
1965	---	33.4 E ON MAY 7	1.33 E ON MAR 1	141 000	1965
1966	---	26.3 ON MAY 28	3.77 E ON MAR 9	131 000	1966
1967	---	24.2 ON MAY 12	2.72 E ON APR 3	122 000	1967
1968	13.0 AT 15:10 CST ON JUN 20	12.5 ON JUN 19	0.481E ON MAR 12	50 500	1968
1969	14.4 AT 02:46 CST ON APR 26	13.9 ON APR 26	3.17 ON APR 7	75 600	1969
1970	---	29.7 E ON JUN 3	3.11 E ON APR 1	129 000	1970
1971	20.5 AT 07:00 CST ON MAY 7	20.1 ON MAY 6	3.09 ON MAR 25	99 100	1971
1972	13.4 AT 01:42 CST ON MAY 12	13.2 ON MAY 8	2.83 ON APR 9	76 300	1972
1973	---	9.71 ON APR 27	2.40 ON MAR 21	65 200	1973
1974	---	65.7 A ON MAY 25 *	3.37 ON APR 10	241 000	1974
1975	14.3 AT 04:43 CST ON MAY 19	14.3 ON MAY 19	2.73 ON APR 12	81 600	1975
1976	15.4 AT 17:00 CST ON JUN 18	14.8 ON JUN 19	1.70 ON MAR 1	82 000	1976
1977	---	10.7 ON JUN 24	0.275 ON MAR 1 *	21 800	1977
1978	20.3 AT 02:27 CST ON MAY 19	19.9 ON MAY 15	2.25 ON MAR 30	110 000	1978
1979	24.5 AT 08:14 CST ON MAY 19 *	24.4 ON MAY 19	0.972 ON MAR 11	120 000	1979
1980	11.4 AT 11:51 CST ON APR 28	11.3 ON APR 26	1.88 ON APR 4	53 400	1980
1981	---	8.74 ON JUN 30	1.75 ON MAR 23	27 000	1981
1982	12.8 AT 13:45 CST ON JUN 14	12.8 ON JUN 14	1.34 B ON MAR 21	74 600	1982
MEAN				96 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRDTAIL CREEK AT BIRTLE - STATION NO. 05ME002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	6.23	1.72	0.363	0.211	0.237	0.532	0.283	0.142	---	1914
1915	0	0	0	1.28	0.720	0.959	1.37	0.142	0.685	1.42	1.28	0.566	0.704	1915
1916	0	0	0	8.22	2.82	8.78	6.34	0.849	0.626	1.21	0.928	0.343	2.50	1916
1917	0.283	0	0	5.21	6.48	2.12	1.46	0.062	0.081	0.151	0.121	0.051	1.34	1917
1924	---	---	---	---	---	---	---	---	---	2.34	---	---	---	1924
1925	---	---	---	19.3	4.92	8.15	---	---	---	---	---	---	---	1925
1926	---	---	---	5.10	2.01	1.35	1.33	0.192	0.974	---	---	---	---	1926
1928	---	---	---	---	4.93	8.62	5.43	1.41	0.558	---	---	---	---	1928
MEAN	0.094	0	0	7.82	4.02	4.53	2.71	0.478	0.527	1.13	0.653	0.276	1.51	MEAN

LOCATION - LAT 50 25 15 N DRAINAGE AREA, 1 320 km^2
LONG 101 02 40 W NATURAL FLOW

BIRDTAIL CREEK AT BIRTLE - STATION NO. 05ME002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	2.46 ON JUL 20	0E ON JAN 1 *	22 200	1915
1916	---	18.5 ON APR 17 *	0E ON JAN 1	79 100	1916
1917	---	15.6 ON APR 27	0E ON FEB 1	42 100	1917
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1928	---	---	---	---	1928
				47 800	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

E - ESTIMATED

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	2.35	1.04	0.974	1.62	---	---	1953
1954	---	---	0	6.46	6.31	9.30	8.09	1.56	3.50	4.76	1.86	---	4.98	1954
1955	---	---	0.060	16.9	13.5	7.93	3.19	0.676	0.442	0.599	---	---	5.38	1955
1956	---	---	0	3.78	17.3	8.02	8.07	1.56	1.47	1.29	---	---	5.19	1956
1957	---	---	1.11	6.70	6.16	1.77	0.555	0.646	0.366	0.407	---	---	2.21	1957
1958	---	---	0.223	2.94	0.635	0.281	0.300	0.010	0	0.054	---	---	0.549	1958
1959	---	---	0.099	1.22	1.03	1.10	1.36	0.174	0.409	1.63	---	---	0.878	1959
1960	---	---	0.011	9.49	5.48	4.49	0.231	0.018	0	0	---	---	2.44	1960
1961	---	---	0.003	0.899	1.25	0.082	0	0	0	0	---	---	0.279	1961
1962	---	---	0	1.67	0.574	0.323	0.096	0.018	0.009	0.015	---	---	0.334	1962
1963	---	---	0.668	2.02	0.604	1.12	0.377	0.289	0.197	0.107	---	---	0.667	1963
1964	---	---	0	3.90	3.11	0.577	0.052	0.032	0.001	0.003	---	---	0.953	1964
1965	---	---	0	3.98	3.52	1.91	0.351	0.032	1.06	0.770	---	---	1.44	1965
1966	---	---	0.344	6.68	6.60	1.53	3.10	0.594	0.111	0.266	---	---	2.40	1966
1967	---	---	0.090	4.03	7.84	1.03	0.266	0.097	0.003	0.077	---	---	1.68	1967
1968	---	---	1.32	2.83	0.635	0.221	0.270	0.435	0.199	0.184	---	---	0.759	1968
1969	---	---	0.098	8.86	1.22	0.602	3.19	0.694	0.136	0.495	---	---	1.90	1969
1970	---	---	0.199	4.99	16.8	2.54	1.65	0.929	0.428	0.807	---	---	3.55	1970
1971	---	---	0	9.53	1.94	6.09	2.96	1.22	0.327	1.66	---	---	2.94	1971
1972	---	---	0.306	14.6	6.16	0.660	0.087	0.142	0.058	0.084	---	---	2.74	1972
1973	---	---	0.467	1.06	0.718	1.06	0.203	0.027	0.519	1.31	---	---	0.669	1973
1974	---	---	0.202	14.2	18.5	4.06	0.359	0.130	0.214	0.354	---	---	4.73	1974
1975	---	---	0.191	5.18	8.15	2.68	0.661	1.08	6.87	4.27	---	---	3.62	1975
1976	---	---	0.503	20.5	4.50	6.07	2.21	0.443	0.344	0.855	---	---	4.38	1976
1977	---	---	0.362	1.90	2.06	0.677	1.43	0.510	1.08	1.36	---	---	1.17	1977
1978	---	---	0.297	7.37	3.31	1.14	0.424	0.075	0.625	0.838	---	---	1.74	1978
1979	---	---	0.131	12.1	17.5	5.49	0.485	0.071	0.007	0.061	---	---	4.46	1979
1980	---	---	0.006	3.19	0.572	0.022	0.335	0.831	0.301	0.658	---	---	0.734	1980
1981	---	---	1.18	1.72	0.957	1.53	0.149	0.038	0.059	0.022	---	---	0.703	1981
1982	---	---	0.013	3.71	1.59	0.269	0.019	0.022	0.001	0.704	---	---	0.785	1982
MEAN	---	---	0.272	6.29	5.47	2.50	1.40	0.490	0.659	0.820	1.74	---	2.22	MEAN

LOCATION - LAT 50 31 50 N DRAINAGE AREA, 1 120 km^2
LONG 100 57 00 W NATURAL FLOW

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1953	---	---	---	---	1953
1954	---	15.9 ON JUL 7	0 B ON MAR 1 *	105 000	1954
1955	---	30.3 ON APR 11	0 B ON MAR 1	114 000	1955
1956	---	30.9 ON MAY 13	0 B ON MAR 1	210 000	1956
1957	---	22.6 ON APR 27	0.142B ON MAR 1	46 700	1957
1958	---	8.16B ON APR 4	0 B ON MAR 1	11 600	1958
1959	---	7.65 ON JUL 4	0 B ON MAR 1	18 600	1959
1960	---	18.5 B ON APR 12	0 ON AUG 18	51 700	1960
1961	---	4.42 ON APR 28	0 B ON MAR 1	5 910	1961
1962	---	9.34 ON APR 20	0 ON MAR 1	7 070	1962
1963	---	4.30B ON APR 6	0 B ON MAR 1	14 100	1963
1964	---	9.17B ON APR 18	0 B ON MAR 1	20 200	1964
1965	---	11.5 B ON APR 15	0 B ON MAR 1	30 500	1965
1966	---	11.4 B ON APR 4	0.017 ON SEP 26	50 800	1966
1967	---	13.6 ON MAY 12	0 ON AUG 31	35 500	1967
1968	---	7.82B ON MAR 30	0.074 ON SEP 30	16 100	1968
1969	---	21.0 ON APR 17	0 ON SEP 20	40 200	1969
1970	---	43.9 ON MAY 5	0.037 ON SEP 10	75 100	1970
1971	---	21.4 B ON APR 13	0 B ON MAR 1	62 200	1971
1972	---	41.1 ON APR 23	0.022 ON JUL 20	57 900	1972
1973	---	3.09 ON OCT 7	0.001 ON AUG 16	14 200	1973
1974	48.4 AT 00:03 CST ON APR 22	43.0 ON APR 22	0.068 ON AUG 13	100 000	1974
1975	29.7 AT 06:36 CST ON MAY 1	29.2 ON MAY 1	0.079 ON AUG 4	76 500	1975
1976	49.8 AT 03:16 CST ON APR 11	46.2 ON APR 11	0.130 ON SEP 16	92 600	1976
1977	4.39 AT 11:55 CST ON MAY 8	4.33 ON MAY 8	0.022 ON AUG 29	24 800	1977
1978	---	12.8 ON APR 21	0 ON AUG 12	36 900	1978
1979	50.9 B AT 20:30 CST ON APR 21 *	48.7 B ON APR 21 *	0 ON AUG 31	94 300	1979
1980	---	5.31B ON APR 14	0 ON JUN 11	15 500	1980
1981	7.66 AT 14:17 CST ON APR 1	6.70 ON APR 1	0 ON AUG 3	14 900	1981
1982	8.95B AT 17:57 CST ON APR 20	8.67B ON APR 21	0 B ON MAR 1	16 600	1982
				46 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRNIE CREEK NEAR BIRNIE - STATION NO. 05LL017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.051	1.72	0.742	1.02	0.818	0.186	0.109	0.147	---	---	0.595	1969
1970	---	---	0.057	0.944	3.29	0.398	0.257	0.056	0.101	0.121	---	---	0.654	1970
1971	---	---	0.019	1.36	0.271	0.954	0.336	0.080	0.100	0.290	---	---	0.422	1971
1972	---	---	0.032	1.22	0.494	0.153	0.048	0.028	0.016	0.032	---	---	0.250	1972
1973	---	---	0.115	0.153	0.179	0.185	0.012	0.017	0.048	0.090	---	---	0.100	1973
1974	---	---	0.014	1.27	1.44	0.343	0.085	0.029	0.048	0.049	---	---	0.408	1974
1975	---	---	0.011	0.827	0.563	0.546	0.159	0.890	1.50	0.400	---	---	0.608	1975
1976	---	---	0.112	2.02	0.369	0.366	0.081	0.023	0.005	0.047	---	---	0.372	1976
1977	---	---	0.024	0.114	0.200	0.113	0.083	0.005	0.224	0.078	---	---	0.105	1977
1978	---	---	0.038	0.721	0.240	0.132	0.026	0	0.062	0.041	---	---	0.156	1978
1979	---	---	0.027	0.932	2.63	0.457	0.124	0.061	0.048	0.085	---	---	0.546	1979
1980	---	---	0.022	0.258	0.041	0.001	0.015	0.268	0.137	0.136	---	---	0.109	1980
1981	---	0.078	0.213	0.205	0.094	0.172	0.032	0.002	0.023	0.105	---	---	0.105	1981
1982	---	---	0.001	1.01	0.166	0.095	0.265	0.030	0.017	0.117	---	---	0.210	1982
MEAN	---	0.078	0.053	0.911	0.766	0.353	0.167	0.120	0.174	0.124	---	---	0.331	MEAN

LOCATION - LAT 50 26 50 N DRAINAGE AREA, 62.9 km^2
LONG 99 27 00 W NATURAL FLOW

BIRNIE CREEK NEAR BIRNIE - STATION NO. 05LL017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	10.7 ON JUN 27	0.028 ON SEP 14	12 600	1969
1970	15.3 AT 03:50 CST ON MAY 7 *	12.9 ON MAY 7 *	0.042 ON AUG 19	13 900	1970
1971	6.43 AT 20:53 CST ON JUN 6	4.93 ON APR 20	0.019B ON MAR 1	8 940	1971
1972	---	4.13 ON APR 22	0 ON AUG 27 *	5 290	1972
1973	1.51 AT 11:19 CST ON OCT 4	0.833 ON MAY 7	0 ON JUL 12	2 110	1973
1974	8.24 AT 03:29 CST ON MAY 12	6.77 ON MAY 12	0.014B ON MAR 1	8 640	1974
1975	14.8 AT 10:05 CST ON SEP 19	10.8 ON SEP 19	0.011B ON MAR 1	12 800	1975
1976	---	5.32 ON APR 10	0 ON AUG 24	7 880	1976
1977	1.42 AT 00:36 CST ON SEP 26	1.27 ON SEP 26	0 ON JUL 9	2 210	1977
1978	2.37 AT 21:59 CST ON APR 24	1.99 ON APR 18	0 A ON AUG 1	3 300	1978
1979	14.9 AT 06:30 CST ON MAY 17	11.7 ON MAY 17	0 ON AUG 30	11 500	1979
1980	2.64 AT 08:48 CST ON AUG 21	2.18 ON AUG 21	0 ON MAY 29	2 320	1980
1981	1.14 AT 17:42 CST ON APR 1	0.860 ON MAR 31	0 ON JUL 27	2 230	1981
1982	---	3.95 B ON APR 15	0 B ON MAR 1	4 450	1982
				7 010	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.510	12.4	16.8	5.30	0.691	0.776	0.834	0.234	0.504	0.231	---	1960
1961	0.153	0.136	0.485	8.46	10.7	2.78	0.140	0.036	0.024	0.090	0.151	0.189	1.95	1961
1962	0.161	0.164	0.265	4.01	17.1	16.7	5.32	12.9	8.74	2.90	2.53	3.74	6.24	1962
1963	0.819	1.03	0.789	14.3	15.9	15.3	3.45	4.81	1.57	0.635	0.490	0.241	4.95	1963
1964	0.074	0.161	0.174	7.47	29.8	4.97	4.45	5.38	13.0	5.65	1.62	0.786	6.16	1964
1965	0.630	0.452	0.529	10.7	24.0	9.92	2.97	1.30	1.14	2.49	2.19	1.24	4.82	1965
1966	0.895	0.581	0.606	11.4	19.6	10.6	3.94	0.482	0.031	0.190	1.37	1.58	4.29	1966
1967	1.21	0.867	0.558	15.1	17.8	4.61	0.660	0.917	0.102	0.049	0.262	0.105	3.53	1967
1968	0.043	0.047	0.122	3.28	12.4	9.13	5.13	7.21	10.5	6.29	3.77	1.15	4.93	1968
1969	0.629	0.763	0.757	12.0	8.56	5.89	4.86	1.23	0.984	4.31	2.16	0.726	3.58	1969
1970	0.397	0.509	0.476	4.67	16.6	10.0	2.29	0.507	0.167	2.68	5.10	2.01	3.80	1970
1971	1.06	0.704	0.557	14.5	11.2	2.02	2.01	0.241	0.061	0.636	1.75	1.56	3.03	1971
1972	0.870	0.558	0.205	10.4	11.1	1.44	0.596	0.859	1.31	1.53	1.82	0.922	2.63	1972
1973	0.851	0.683	0.964	6.04	5.51	15.3	3.05	3.32	2.44	9.38	5.71	3.14	4.71	1973
1974	1.30	0.873	0.596	18.1	31.8	7.18	0.407	0.095	2.00	1.18	1.00	0.685	5.45	1974
1975	0.531	0.556	0.487	4.19	9.78	3.86	1.54	2.47	2.56	1.61	1.13	0.287	2.43	1975
1976	0.164	0.208	0.266	11.0	6.19	2.91	1.82	0.189	0.049	0.010	0.016	0.023	1.89	1976
1977	0.016	0.021	0.050	0.772	0.568	3.44	5.68	5.63	17.6	5.33	2.38	1.15	3.55	1977
1978	0.581	0.381	0.367	8.29	14.4	9.53	8.30	2.09	1.08	0.668	0.471	0.196	3.88	1978
1979	0.146	0.117	0.227	12.8	25.6	14.7	1.35	0.442	0.345	0.232	0.323	0.315	4.73	1979
1980	0.314	0.322	0.242	6.63	5.81	0.737	0.289	0.064	1.31	3.48	1.98	0.735	1.83	1980
1981	0.549	0.472	0.477	0.582	0.913	4.62	3.05	4.12	2.54	2.39	2.97	1.25	2.00	1981
1982	0.359	0.285	0.264	7.34	9.56	5.27	5.32	2.31	0.514	1.33	0.978	0.622	2.86	1982
MEAN	0.534	0.450	0.434	8.89	14.0	7.23	2.93	2.49	3.00	2.32	1.77	0.995	3.78	MEAN

LOCATION - LAT 50 51 42 N DRAINAGE AREA, 712 km²
LONG 96 15 10 W NATURAL FLOW

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	32.3 ON APR 23	---	---	1960
1961	---	25.3 ON APR 24	0.020E ON SEP 16	61 500	1961
1962	---	34.8 ON AUG 30	0.156 ON JAN 1	197 000	1962
1963	---	22.9 ON APR 26	0.105 ON DEC 27	156 000	1963
1964	---	48.4 ON MAY 8	0.048 ON JAN 26	195 000	1964
1965	---	32.8E ON APR 27	0.385E ON MAR 9	152 000	1965
1966	---	21.2 ON MAY 16	0.017 ON SEP 21	135 000	1966
1967	---	31.7E ON APR 28	0 ON SEP 28 *	111 000	1967
1968	27.2 AT 23:00 CST ON AUG 25	25.8 ON AUG 26	0.031B ON JAN 23	156 000	1968
1969	---	24.0 ON APR 17	0.518 ON DEC 28	113 000	1969
1970	21.4 AT 13:51 CST ON JUN 2	21.1 ON JUN 2	0.042 ON SEP 7	120 000	1970
1971	42.2 AT 23:13 CST ON APR 20	40.5 ON APR 21	0 ON SEP 13	95 500	1971
1972	29.4 AT 19:20 CST ON APR 23	28.9 ON APR 23	0 ON APR 1	83 200	1972
1973	59.7 AT 14:27 CST ON JUN 16	58.3 ON JUN 16	0.600 ON MAR 8	148 000	1973
1974	68.8 AT 18:40 CST ON APR 30 *	68.0 ON APR 30 *	0.020 ON AUG 19	172 000	1974
1975	13.8 AT 17:20 CST ON MAY 6	13.6 ON MAY 6	0.181 ON AUG 2	76 600	1975
1976	19.7 AT 16:20 CST ON APR 19	19.5 ON APR 19	0.007 ON OCT 17	59 800	1976
1977	---	40.8A ON SEP 11	0.013B ON JAN 17	112 000	1977
1978	26.0 AT 18:25 CST ON APR 26	25.8 ON APR 27	0.130 ON DEC 28	122 000	1978
1979	41.4 AT 09:13 CST ON JUN 1	41.0 ON JUN 1	0.103B ON FEB 17	149 000	1979
1980	15.6 AT 17:54 CST ON APR 21	15.6 ON APR 22	0.014 ON AUG 7	57 800	1980
1981	12.6 AT 05:27 CST ON AUG 11	12.1 ON AUG 10	0.347 ON MAR 15	63 100	1981
1982	45.1 AT 14:00 CST ON APR 16	32.6B ON APR 16	0.172B ON MAR 7	90 200	1982
MEAN				119 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. 05RB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	16.1	15.1	14.5	23.7	32.9	43.2	33.4	16.9	8.70	4.57	3.13	2.44	17.9	1976
1977	2.27	2.90	3.32	11.5	10.1	20.4	27.6	39.1	76.6	109	59.0	34.6	33.2	1977
1978	24.1	17.1	13.2	39.2	93.7	99.4	156	118	92.0	62.9	49.6	30.2	66.7	1978
1979	21.2	17.3	16.4	88.2	196	235	79.2	45.2	51.9	36.3	30.0	26.9	70.4	1979
1980	24.9	22.0	19.3	52.7	74.1	46.3	27.5	18.7	43.1	47.2	44.5	30.6	37.6	1980
1981	21.6	16.6	14.8	26.9	27.1	54.3	59.2	48.4	66.6	56.9	55.8	26.1	39.6	1981
1982	17.0	14.7	12.2	54.2	99.8	127	88.2	69.6	44.3	39.4	30.1	19.4	51.5	1982
MEAN	18.2	15.1	13.4	42.3	76.2	89.4	67.3	50.8	54.7	50.9	38.9	24.3	45.3	MEAN

LOCATION - LAT 51 42 52 N DRAINAGE AREA, 9 090 km²
LONG 96 36 44 W NATURAL FLOW

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. 05RB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	48.1E ON JUN 27	2.28E ON DEC 30	565 000	1976
1977	---	126 A ON OCT 6	2.21 ON JAN 28 *	1 050 000	1977
1978	195 AT 13:51 CST ON JUL 17	193 ON JUL 17	12.7 B ON MAR 21	2 110 000	1978
1979	373 AT 21:00 CST ON JUN 2 *	372 ON JUN 3 *	16.3 B ON MAR 5	2 220 000	1979
1980	101 AT 18:37 CST ON APR 24	100 ON APR 24	16.2 ON AUG 16	1 190 000	1980
1981	120 AT 08:08 CST ON SEP 8	120 ON SEP 8	13.2 B ON MAR 21	1 250 000	1981
1982	165 AT 12:05 CST ON JUN 9	164 ON JUN 9	11.1 B ON MAR 26	1 620 000	1982
				1 430 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOSSHILL CREEK NEAR VIRDEN - STATION NO. 05MG002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.146	0.021	0.006	0	0	0	0	0	---	---	0.022	1959
1960	---	---	0	1.88	0.047	0.007	0	0	0	0	---	---	0.238	1960
1961	---	---	0.017	0.038	0.009	0	0	0	0	0	---	---	0.008	1961
1962	---	---	0	0.136	0.012	0.005	0	0	0	0	---	---	0.019	1962
1963	---	---	0.607R	0.193R	0.032R	0.317R	0.127R	0.002R	0.001	0	---	---	0.160R	1963
1964	---	---	0.017	1.76	0.760	0.025	0.003	0	0	0.003	---	---	0.317	1964
1965	---	---	0	1.52	0.079	0.052	0.679	0.022	0.147	0.126	---	---	0.325	1965
1966	---	---	0.397	0.637	0.208	0.027	0.002	0.001	0	0	---	---	0.158	1966
1967	---	---	0	0.998	0.259	0.003	0	0	0	0	---	---	0.155	1967
1968	---	---	0.345	0.022	0.012	0.002	0	0.006	0.008	0.004	---	---	0.050	1968
1969	---	---	0	3.51	0.166	0.009	0.251	0.028	0	0.011	---	---	0.489	1969
1970	---	---	0	1.40	0.691	0.034	0.106	0.051	0.029	0.201	---	---	0.311	1970
1971	---	---	0.035	0.396	0.078	0.499	0.130	0.001	0.039	0.027	---	---	0.149	1971
1972	---	---	0.662	0.999	0.075	0.002	0	0	0.001	0.001	---	---	0.216	1972
1973	---	---	0.038	0.017	0.026	0.002	---	0.013	0.027	0.127	---	---	---	1973
1974	---	---	0	2.29	0.583	0.084	---	0	0	0	---	---	---	1974
1975	---	---	0	2.08	0.545	0.345	---	0.031	0.130	0.144	---	---	---	1975
1976	---	---	0.020	7.09	0.244	0.071	---	0	0	0	---	---	---	1976
MEAN	---	---	0.127R	1.39 R	0.213R	0.082R	0.093R	0.009R	0.021	0.036	---	---	0.187	MEAN

LOCATION - LAT 49 50 34 N, LONG 100 58 02 W

DRAINAGE AREA, 184 km^2

NATURAL FLOW

R - REVISED SINCE JAN 1980

BOSSHILL CREEK NEAR VIRDEN - STATION NO. 05MG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.510 ON MAR 24	0B ON MAR 1 *	461	1959
1960	---	6.51 ON APR 3	0 ON MAR 1	5 030	1960
1961	---	0.170 ON APR 3	0 ON MAR 1	169	1961
1962	---	0.453 ON APR 16	0 ON MAR 1	399	1962
1963	---	1.57 ON MAR 23	0B ON MAR 1	3 390R	1963
1964	---	3.03 B ON APR 10	0B ON MAR 1	6 720	1964
1965	---	7.93 E ON APR 14	0E ON MAR 1	6 880	1965
1966	---	4.02 B ON MAR 31	0B ON MAR 1	3 350	1966
1967	---	2.97 ON APR 12	0B ON MAR 1	3 290	1967
1968	---	0.861B ON MAR 13	0B ON MAR 1	1 070	1968
1969	---	18.1 ON APR 14	0B ON MAR 1	10 400	1969
1970	---	3.11 ON APR 30	0B ON MAR 1	6 590	1970
1971	---	3.09 ON JUN 10	0B ON MAR 1	3 150	1971
1972	---	2.77 B ON MAR 23	0B ON MAR 1	4 570	1972
1973	---	0.246 ON MAR 19	---	---	1973
1974	---	10.8 ON APR 19	---	---	1974
1975	---	6.68 B ON APR 17	---	---	1975
1976	---	24.0 ON APR 10 *	---	---	1976
				3 960R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

BOYNE CHANNEL NEAR HOMEWOOD - STATION NO. 05OF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0.017	0.021	---	---	1918
1919	---	---	---	1.34	0.081	0.005	0	0.004	0	---	---	---	---	1919
MEAN	---	---	---	1.34	0.081	0.005	0	0.004	0	0.017	0.021	---	---	MEAN

LOCATION - LAT 49 31 05 N, LONG 97 50 40 W

REGULATED

BOYNE RIVER NEAR CARMAN - STATION NO. 05OF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0.293	0.472	---	---	1918
1919	---	---	---	4.28	0.842	0.604	0.142	0.117	0.114	0.086	---	---	---	1919
1920	---	---	---	---	1.70 R	0.570	0.217	0.068	0	---	---	---	---	1920
1921	---	---	---	6.74	1.14	0.557	4.09	---	---	---	---	---	---	1921
1922	---	---	---	4.36	1.55	0.316	0.257	0.115	---	---	---	---	---	1922
1923	---	---	---	---	3.64	0.858	0.259	0.131	---	---	---	---	---	1923
1924	---	---	---	---	1.52	0.436	0.182	0.158	0.015	---	---	---	---	1924
1925	---	---	---	5.10	1.17	1.18	0.403	0.076	0.080	0.198	---	---	---	1925
1926	---	---	---	---	0.449	0.478	0.171	0.078	0.291	---	---	---	---	1926
1927	---	---	---	10.6	10.8	3.42	1.31	0.604	0.452	0.526	---	---	---	1927
1928	---	---	---	2.55	0.969	3.27	4.29	0.666	0.180	0.265	---	---	---	1928
1929	---	---	---	---	0.790	0.399	0.057	---	---	---	---	---	---	1929
1930	---	---	---	11.6	3.56	0.940	0.221	0.015	0.015	---	---	---	---	1930
1956	---	---	---	15.0	8.84	1.08	0.285	0.346	0.968	0.407	---	---	---	1956
1957	---	---	2.73	2.77	1.37	1.04	0.561	0.351	0.241	0.281	---	---	---	1957
1958	---	---	0.776	2.39	0.393	0.085	0.185	0.019	0	0	---	---	---	1958
1959	---	---	0.368	6.51	1.88	1.00	0.160	0.050	0.039	1.19	1.20	0.349	---	1959
1960	0.245	0.316	0.364	17.5	2.71	1.03	0.266	0.158	0.053	0.065	0.142	0.073	1.88	1960
1961	0.035	0.089	2.95	4.77 R	1.71 R	0.222R	0.013	0	0	0	0	0	0.817R	1961
1962	0	0	0	8.18	3.13	3.51	0.633	5.02	1.71	0.233	0.208	0.173	1.90	1962
1963	0.092	0.019	2.66	3.49	2.02	5.38	1.17	0.[illegible]56	0.036	0.089	0.082	0.062	1.30	1963
1964	0.055	0.040	0.027	3.91	1.16	0.820	0.336	0.042	2.03	0.716	0.160	0.078	0.775	1964
1965	0.057	0.049	0.065	15.5	3.51	1.85	1.20	0.428	0.896	1.14	0.692	0.282	2.13	1965
1966	0.161	0.024	3.04	15.0	6.94	0.910	3.15	0.209	0.123	0.076	0.249	0.235	2.52	1966
1967	0.243	0.243	0.228	12.8	3.98	0.627	0.356	0.242	0	0.032	0.044	0.051	1.56	1967
1968	0.034	0.081	1.28	1.75	2.01	0.534	0.779	4.74	2.06	0.576	0.433	0.424	1.23	1968
1969	0.314	0.183	0.183	18.2	4.05	1.75	7.94	1.54	0.284	0.310	1.60	0.157	3.04	1969
1970	0.130	0.134	0.158	16.6	23.1	2.11	0.402	0.041	0.038	0.085	0.448	0.354	3.65	1970
1971	0.194	0.126	0.171	12.9	2.52	1.61	1.19	0.376	0.219	0.798	0.703	0.548	1.77	1971
1972	0.236	0.125	3.20	9.20	2.30	0.399	0.113	0.146	0.093	0.298	0.264	0.057	1.36	1972
1973	0.048	0.089	0.404	0.879	0.709	0.228	0.218	0.101	0.018	0.299	0.407	0.314	0.311	1973
1974	0.060	0.137	0.159	26.7	14.2	2.26	0.410	0.091	0.081	0.140	0.203	0.201	3.71	1974
1975	0.170	0.110	0.162	2.50	2.68	1.54	1.08	0.311	0.236	0.245	0.162	0.096	0.776	1975
1976	0.086	0.096	0.126	14.3	0.992	0.219	0.087	0.136	0.148	0.067	0.032	0.024	1.34	1976
1977	0.020	0.021	0.084	0.068	1.23	0.268	0.029	0.024	0.403	0.572	0.206	0.172	0.260	1977
1978	0.154	0.150	0.111	9.03	2.15	1.35	2.94	0.926	0.408	0.219	0.268	0.088	1.48	1978
1979	0.038	0.214	0.257	23.4	19.1	3.05	0.597	0.089	0.089	0.070	0.116	0.180	3.93	1979
1980	0.177	0.144	0.154	3.39	0.666	0.020	0.054	0.027	0.052	0.023	0.012	0.001	0.389	1980
1981	0	0.126	0.370	0.323	0.240	0.671	0.378	0.276	0.747	0.118	0.026	0.011	0.273	1981
1982	0	0	0.057	1.94	0.675	0.320	0.254	0.005	0.020	0.080	0.020	0.119	0.290	1982
MEAN	0.111	0.109	0.772	8.65 R	3.65 R	1.20 R	0.933	0.491	0.347	0.297	0.326	0.169	1.60	MEAN

LOCATION - LAT 49 31 00 N DRAINAGE AREA, 976 km²
LONG 97 56 40 W REGULATED

R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR CARMAN - STATION NO. 05OF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1918	---	---	---	---	1918
1919	---	13.5 ON APR 9	---	---	1919
1920	---	---	0 ON AUG 23 *	---	1920
1921	---	---	---	---	1921
1922	---	15.3 B ON APR 7	---	---	1922
1923	---	---	---	---	1923
1924	---		---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	29.7 ON MAY 14	---	---	1927
1928	---	12.6 ON JUL 9	---	---	1928
1929	---	---	---	---	1929
1930	---	34.0 ON APR 9	0 ON AUG 11	---	1930
1956	---	56.1 B ON APR 25	0 ON SEP 26	---	1956
1957	---	10.8 B ON MAR 26	---	---	1957
1958	---	6.09B ON APR 1	0 ON JUN 19	---	1958
1959	---	14.9 B ON APR 6	0 B ON MAR 1	---	1959
1960	---	43.0 ON APR 15	0.028 ON SEP 19	59 600	1960
1961	---	19.4 B ON MAR 28	0 ON JUL 31	25 800R	1961
1962	---	38.8 B ON APR 23	0 ON JAN 1	59 800	1962
1963	---	14.5 ON JUN 5	0 B ON FEB 20	40 900	1963
1964	---	13.9 B ON APR 14	0 ON AUG 10	24 500	1964
1965	---	59.5 B ON APR 16	0.048B ON JAN 27	67 300	1965
1966	---	55.2 B ON APR 6	0 B ON FEB 16	79 400	1966
1967	---	37.9 ON APR 23	0 ON AUG 25	49 200	1967
1968	---	35.7 ON AUG 27	0.023B ON JAN 19	39 000	1968
1969	---	69.7 ON APR 15	0.048 ON SEP 22	95 900	1969
1970	---	105 ON APR 30	0.006 ON NOV 16	115 000	1970
1971	---	54.1 ON APR 13	0.005 ON SEP 29	55 900	1971
1972	---	19.3 B ON APR 16	0.008 ON OCT 6	43 200	1972
1973	---	1.18 ON APR 24	0.001 ON SEP 15	9 800	1973
1974	---	132 ON APR 22 *	0.004 ON AUG 17	117 000	1974
1975	---	11.4 ON JUN 30	0 ON AUG 2	24 500	1975
1976	35.1 AT 07:41 CST ON APR 12	34.8 ON APR 11	0 ON AUG 15	42 400	1976
1977	8.35 AT 19:03 CST ON MAY 21	7.39 ON MAY 21	0 ON JUL 14	8 200	1977
1978	---	23.8 B ON APR 13	0.007B ON APR 7	46 600	1978
1979	131 B AT 23:43 CST ON APR 22 *	119 ON APR 23	0.013B ON FEB 3	124 000	1979
1980	---	10.7 B ON APR 8	0 ON JUN 9	12 300	1980
1981	6.41 AT 08:07 CST ON JUN 26	5.47 ON JUN 26	0 B ON JAN 1	8 610	1981
1982	8.21B AT 00:27 CST ON APR 15	6.53B ON APR 15	0 B ON JAN 1	9 150	1982
				50 400R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR RATHWELL - STATION NO. 05OF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	0.801	1.21	0.599	0.170	0	0	---	---	---	1963
1964	---	---	0	2.18	0.487	0.919	0.477	0.048	1.66	0.850	---	---	0.819	1964
1965	---	---	0	6.31	0.619	0.371	0.277	0.221	0.214	0.249	---	---	1.02	1965
1966	---	---	1.00	3.64	2.12	0.267	1.40	0.007	0	0	---	---	1.05	1966
MEAN	---	---	0.333	4.04	1.01	0.692	0.688	0.112	0.469	0.275	---	---	0.963	MEAN

LOCATION - LAT 49 38 10 N DRAINAGE AREA, 440 km^2
LONG 98 30 19 W NATURAL FLOW

BOYNE RIVER NEAR RATHWELL - STATION NO. 05OF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	0 ON AUG 29 *	---	1963
1964	---	5.97 ON SEP 2	0B ON MAR 1	17 300	1964
1965	---	33.4 ON APR 14 *	0B ON MAR 1	21 500	1965
1966	---	8.55 ON APR 6	0B ON MAR 1	22 300	1966
				20 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.026	6.50	1.57	0.074	0.016	0.001	0	0.022	---	---	1.01	1967
1968	---	---	0.613	0.613	0.999	0.182	0.221	0.959	0.369	0.139	---	---	0.513	1968
1969	---	---	0	9.96	1.50	0.727	2.93	1.04	0.202	0.229	---	---	2.05	1969
1970	---	---	0	12.2	8.31	0.635	0.122	0.005	0.018	0.040	---	---	2.64	1970
1971	---	---	0	6.70	1.07	0.504	0.516	0.199	0.101	0.337	---	---	1.16	1971
1972	---	---	2.36	3.92	0.990	0.143	0.036	0.062	0.062	0.060	---	---	0.949	1972
1973	---	---	0.549	0.327	0.290	0.068	0.034	0.058	0.045	0.083	---	---	0.182	1973
1974	---	---	0.042	15.5	5.31	0.896	0.061	0.012	0.023	0.045	---	---	2.70	1974
1975	---	---	0.040	1.50	1.16	0.674	0.194	0.027	0.055	0.132	---	---	0.469	1975
1976	---	---	0.147	9.15	0.417	0.065	0.001	0.010	0	0	---	---	1.20	1976
1977	---	---	0.065	0.230	0.535	0.030	0.031	0.025	0.287	0.256	---	---	0.182	1977
1978	---	---	0.085	7.19	2.00	0.794	2.03	0.704	0.172	0.135	---	---	1.63	1978
1979	---	---	0.073	16.8	9.85	1.37	0.134	0.012	0.060	0.300	---	---	3.55	1979
1980	---	---	0.003	2.45	0.169	0.072	0.012	0.004	0.011	0.027	---	---	0.338	1980
1981	---	0.116	0.157	0.190	0.101	0.156	0.344	0.061	0.012	0.030	---	---	0.132	1981
1982	---	---	0.106	0.745	0.290	0.236	0.019	0.008	0	0.055	---	---	0.181	1982
MEAN	---	0.116	0.267	5.87	2.16	0.414	0.419	0.199	0.089	0.118	---	---	1.18	MEAN

LOCATION - LAT 49 32 39 N DRAINAGE AREA, 565 km²
LONG 98 24 52 W NATURAL FLOW

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	23.3 ON APR 21	0 B ON MAR 1 *	21 400	1967
1968	---	14.2 E ON AUG 24	0 B ON MAR 1	10 900	1968
1969	---	42.8 ON APR 12	0 B ON MAR 1	43 500	1969
1970	---	48.7 ON APR 30	0 B ON MAR 1	56 000	1970
1971	---	22.3 B ON APR 9	0 B ON MAR 1	24 600	1971
1972	---	9.17B ON MAR 21	0 B ON MAR 1	20 000	1972
1973	---	1.00B ON MAR 14	0 B ON MAR 1	3 860	1973
1974	---	68.2 ON APR 21	0.006 ON AUG 4	57 200	1974
1975	---	3.91 ON APR 29	0.003 ON AUG 7	9 940	1975
1976	---	27.2 ON APR 8	0 ON JUL 7	25 400	1976
1977	---	1.91 ON MAY 16	0 B ON MAR 1	3 860	1977
1978	---	20.2 ON APR 10	0.040B ON MAR 1	34 400	1978
1979	---	83.6 A ON APR 21 *	0 ON AUG 12	75 200	1979
1980	8.47B AT 10:16 CST ON APR 10	7.28B ON APR 10	0 B ON MAR 1	7 150	1980
1981	11.3 AT 02:48 CST ON JUL 16 *	5.53 ON JUL 16	0 ON AUG 15	2 780	1981
1982	---	1.64 ON APR 21	0 B ON MAR 1	3 830	1982
MEAN				25 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05OF006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1952	---	---	---	---	---	---	---	---	0.006R	0.014R	0.025R	0.023R	---	1952
1953	0.006R	0.003R	0.113R	1.17	0.742	7.82	1.45	2.84	0.075	0.059	0.085	0.057	1.20 R	1953
1954	0.039	0.061	0.121	1.19	1.63	6.03	5.22	0.379	0.834	1.16	1.18	0.572	1.54	1954
1955	0.159	0.143	0.164	14.1	2.12	3.73	3.66	0.153	0.018	0.066	0.079	0.110	2.03	1955
1956	0.091	0.055	0.104	13.3	7.50	0.969	0.141	0.576	1.08	0.534	0.771	0.197	2.10	1956
1957	0.093	0.125	2.68	2.79	1.33	1.10	0.520	0.282	0.232	0.142	0.165	0.057	0.796	1957
1958	0.015	0.033	1.25	2.14	0.512	0.066	0.114	0.024	0.007	0.040	0.077	0.058	0.362	1958
1959	0.055	0.029	0.571	5.78	1.81	0.788	0.126	0.048	0.079	1.13	0.991	0.296	0.973	1959
1960	0.181	0.087	0.145	15.3	2.48	1.10	0.271	0.272	0.053	0.123	0.168	0.052	1.67	1960
1961	0.050	0.030	3.76	4.65	1.51	0.151	0.032	0.011	0.012	0.010	0.002	0	0.854	1961
1962	0	0	0	9.01	2.80	2.90	0.510	6.12	1.52	0.334	0.223	0.131	1.96	1962
1963	0.033	0.011	2.84	3.13	1.70	4.42	1.19	0.359	0.127	0.431	0.140	0.061	1.20	1963
1964	0.034	0.021	0.009	3.13	1.03	0.946	0.322	0.081	2.17	0.197	0.218	0.140	0.685	1964
1965	0.099	0.074	0.104	15.7	3.04	1.25	1.23	0.482	0.703	0.928	0.560	0.244	2.02	1965
1966	0.041	0.008	1.32	12.2	7.38	0.835	2.57	0.154	0.064	0.115	0.241	0.158	2.09	1966
1967	0.136	0.024	0.068	10.8	3.16	0.702	0.333	0.062	0.020	0.031	0.082	0.053	1.28	1967
1968	0.008	0.014	1.60	1.26	1.64	0.354	0.717	4.18	1.80	0.578	0.499	0.482	1.10	1968
1969	0.258	0.215	0.224	18.2	3.12	2.06	6.64	1.35	0.275	0.448	1.39	0.135	2.85	1969
1970	0.129	0.136	0.132	19.3	17.8	1.52	0.287	0.012	0.034	0.111	0.311	0.162	3.33	1970
1971	0.089	0.124	0.167	12.6	2.12	1.37	1.17	0.308	0.224	0.928	0.796	0.471	1.68	1971
1972	0.160	0.021	3.02	8.28	1.94	0.316	0.046	0.090	0.043	0.334	0.234	0.146	1.22	1972
1973	0.106	0.139	0.548	0.623	0.581	0.184	0.156	0.075	0.068	0.257	0.463	0.373	0.299	1973
1974	0.157	0.171	0.189	23.4	10.7	1.77	0.274	0.013	0.045	0.049	0.258	0.217	3.09	1974
1975	0.162	0.138	0.177	2.85	2.13	1.70	0.628	0.310	0.235	0.256	0.166	0.099	0.737	1975
1976	0.079	0.075	0.094	14.2	0.827	0.153	0.016	0.090	0.187	0.057	0.067	0.046	1.30	1976
1977	0.059	0.129	0.090	0.017	1.26	0.126	0.018	0.071	0.551	0.463	0.266	0.261	0.278	1977
1978	0.228	0.170	0.117	9.06	2.09	1.24	2.97	0.848	0.390	0.209	0.393	0.093	1.48	1978
1979	0.040	0.069	0.150	24.1	15.6	2.45	0.282	0.062	0.056	0.046	0.094	0.178	3.59	1979
1980	0.193	0.170	0.150	3.63	0.501	0.089	0.078	0.116	0.056	0.017	0.012	0.028	0.416	1980
1981	0.078	0.072	0.357	0.309	0.286	0.631	0.429	0.253	0.719	0.196	0.064	0.050	0.287	1981
1982	0.029	0.023	0.023	2.16	0.632	0.371	0.075	0.013	0.132	0.045	0.189	0.176	0.320	1982
MEAN	0.094R	0.079R	0.676R	8.48	3.33	1.57	1.05	0.654	0.381R	0.300R	0.329R	0.165R	1.42	MEAN

LOCATION - LAT 49 30 48 N DRAINAGE AREA, 873 km²
LONG 98 14 58 W REGULATED SINCE 1964

R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05OF006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1952	---	---	---	---	1952
1953	---	26.9 ON JUN 4	0.003RB ON FEB 1	37 900R	1953
1954	---	31.7 E ON JUL 1	0.020B ON JAN 1	48 500	1954
1955	---	41.3 B ON APR 5	0 ON SEP 2 *	64 200	1955
1956	---	44.7 B ON APR 21	0 B ON FEB 20	66 400	1956
1957	---	11.1 B ON MAR 23	0.028 ON SEP 21	25 100	1957
1958	---	6.20B ON MAR 31	0 B ON JAN 18	11 400	1958
1959	---	17.9 B ON APR 4	0.003B ON MAR 16	30 700	1959
1960	---	41.1 ON APR 14	0.003 ON OCT 1	52 800	1960
1961	---	26.5 B ON MAR 27	0 ON OCT 20	27 000	1961
1962	---	45.0 B ON APR 21	0 B ON JAN 1	61 900	1962
1963	---	15.0 ON JUN 5	0 B ON FEB 19	38 000	1963
1964	---	12.5 ON SEP 2	0 B ON APR 9	21 700	1964
1965	---	63.4 ON APR 15	0.034 ON JUN 14	63 700	1965
1966	---	42.5 B ON APR 4	0 B ON FEB 18	66 000	1966
1967	---	43.3 ON APR 21	0 ON AUG 31	40 400	1967
1968	---	32.8 ON AUG 25	0 B ON JAN 18	34 800	1968
1969	---	70.8 ON APR 12	0.122 ON SEP 20	90 000	1969
1970	111 AT 13:27 CST ON APR 29	108 ON APR 29	0.008 ON AUG 12	105 000	1970
1971	60.3 AT 12:00 CST ON APR 11	57.2 ON APR 11	0.019 ON AUG 31	53 200	1971
1972	20.7 AT 13:44 CST ON APR 15	18.7 ON APR 15	0.003 ON SEP 10	38 500	1972
1973	---	1.70B ON MAR 27	0.004A ON JUL 24	9 430	1973
1974	136 AT 17:00 CST ON APR 21	114 ON APR 21	0.001A ON AUG 6	97 600	1974
1975	15.9 AT 06:10 CST ON JUN 29	14.3 ON JUN 29	0.001A ON JUL 30	23 200	1975
1976	43.9 AT 16:37 CST ON APR 9	42.8 ON APR 9	0 ON AUG 8	41 300	1976
1977	---	7.76A ON MAY 20	0 ON APR 25	8 750	1977
1978	---	26.1 B ON APR 11	0.045B ON DEC 27	46 700	1978
1979	155 AT 08:49 CST ON APR 22 *	137 ON APR 22 *	0.029 ON SEP 14	113 000	1979
1980	12.4 AT 15:10 CST ON APR 7	11.5 B ON APR 7	0.011 ON OCT 28	13 100	1980
1981	7.16 AT 22:11 CST ON JUN 24	5.01 ON JUN 25	0.001A ON OCT 22	9 050	1981
1982	---	6.26A ON APR 13	0.001A ON JUL 22	10 100	1982
				45 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD   R - REVISED SINCE JAN 1980

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.035	2.15	0.605	0.004	0.042	0	0	0	---	---	0.692	1967
1968	---	---	0.326	0.418	0.327	0.077	0.073	0.201	0.135	0.093	---	---	0.288	1968
1969	---	---	0.005	5.65	0.603	0.756	1.49	0.519	0.084	0.100	---	---	1.73	1969
1970	---	---	0	6.36	3.22	0.316	0.061	0.011	0.018	0.026	---	---	2.46	1970
1971	---	---	0	4.72	0.611	0.278	0.589	0.105	0.042	0.155	---	---	1.39	1971
1972	---	---	0.972	1.99	0.450	0.048	0.008	0.131	0.021	0.029	---	---	0.863	1972
1973	---	---	0.297	0.163	0.146	0.039	0.088	0.019	0.023	0.038	---	---	0.162	1973
1974	---	---	0	8.80	2.22	0.367	0.01[illegible]	0	0.013	0.041	---	---	2.82	1974
1975	---	---	0.001	0.789	0.699	0.173	0.023	0.003	0.020	0.038	---	---	0.414	1975
1976	---	---	0.074	5.17	0.178	0.053	0.005	0	0	0	---	---	1.35	1976
1977	---	---	0.019	0.145	0.223	0.018	0.491	0.123	0.406	0.147	---	---	0.102	1977
1978	---	---	0.095	2.45	0.537	0.358	---	---	---	---	---	---	0.851	1978
1979	---	---	0.017	6.86	3.25	0.518	---	---	---	---	---	---	2.64	1979
1980	---	---	0.023	0.903	0.069	0.009	---	---	---	---	---	---	0.248	1980
1981	---	---	0.029	0.100	0.098	0.071	---	---	---	---	---	---	0.075	1981
1982	---	---	0.098	0.649	0.151	0.045	---	---	---	---	---	---	0.234	1982
MEAN	---	---	0.124	2.96	0.837	0.196	0.262	0.101	0.069	0.061	---	---	1.02	MEAN

LOCATION - LAT 49 40 15 N   DRAINAGE AREA, 277 km^2
LONG 98 38 35 W   NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1973 AND 1977

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	8.95 ON APR 21	0 B ON MAR 1 *	7 290	1967
1968	---	2.18 ON MAY 16	0 B ON MAR 1	3 030	1968
1969	---	29.7 ON APR 10	0 B ON MAR 1	18 300	1969
1970	---	34.0 E ON APR 26	0 B ON MAR 1	26 000	1970
1971	---	12.8 ON APR 8	0 B ON MAR 1	14 600	1971
1972	---	4.25 B ON APR 10	0 B ON MAR 1	9 100	1972
1973	---	0.425B ON MAR 12	0 B ON MAR 1	1 710	1973
1974	---	49.6 ON APR 21 *	0 B ON MAR 1	29 700	1974
1975	---	4.25 E ON MAY 25	0 B ON MAR 1	4 370	1975
1976	---	19.4 B ON APR 6	0.018 ON JUN 30	14 200	1976
1977	---	0.994 ON MAY 14	0 B ON MAR 1	1 070	1977
1978	---	7.62 ON APR 10	0.016B ON MAR 1	8 970	1978
1979	---	37.2 B ON APR 21	0.016B ON MAR 1	27 900	1979
1980	3.00 B AT 20:28 CST ON APR 6 *	2.70 B ON APR 6	0 ON JUN 8	2 610	1980
1981	0.211 AT 22:38 CST ON MAY 29	0.176 ON MAY 2	0.006B ON MAR 5	786	1981
1982	2.32 B AT 08:38 CST ON APR 13	1.90 B ON APR 13	0 B ON MAR 1	2 470	1982
				10 800	MEAN

B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BROKENHEAD RIVER AT ST. OUENS - STATION NO. 05SA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	9.59	3.60	2.30	11.7	13.5	8.39	---	---	1912
1913	---	---	---	---	5.95	3.04	5.37	5.69	4.88	3.46	2.44	---	---	1913
1914	0	0	0.156	5.13	6.70	13.4	15.0	2.43	2.39	6.42	3.89	0.786	4.72	1914
1915	0.170	0.113	0.085	10.6	14.8	6.44	3.60	0.403	0.126	1.84	1.14	0.425	3.32	1915
1916	0.142	0.142	0.142	20.3	16.9	5.79	6.87	5.14	1.88	2.10	2.54	0.283	5.18	1916
1917	0.057	0.057	0.170	5.95	5.08	1.07	0.604	0.603	0.693	0.680	1.30	0.113	1.37	1917
1918	0.028	0	1.18	2.53	1.33	3.88	1.75	2.07	0.791	1.28	4.02	0.681	1.63	1918
1919	0.212	0.061	0.231	11.2	4.71	2.89	22.1	3.40	3.37	2.16	0.784	0.116	4.31	1919
1920	0.006	0.067	0.369	13.1	7.40	12.5	1.41	0.064	0.112	0.165	0.150	0.072	2.93	1920
1921	0.052	0.050	0.092	8.02	6.26	2.24	4.21	1.04	1.95	2.19	1.06	0.225	2.29	1921
1922	0.090	0.039	0.174	4.60	16.4	5.28	3.22	4.43	2.79	0.989	4.31	---	---	1922
1923	---	---	---	---	16.8	5.34	11.2	8.23	3.64	3.53	1.70	---	---	1923
1924	---	---	---	---	22.2	6.13	1.79	1.67	0.606	3.59	---	---	---	1924
1925	---	---	---	17.3	6.58	24.8	9.70	2.00	1.98	5.88	3.40	---	---	1925
1926	---	---	---	---	1.35	4.52	5.54	1.47	1.79	10.4	7.08	---	---	1926
1927	---	---	---	28.3	47.3	14.7	2.70	0.576	2.56	5.53	4.26	---	---	1927
1928	---	---	---	1.42	4.11	25.8	21.1	7.63	2.56	0.751	---	---	---	1928
1929	---	---	---	---	2.68	5.93	3.98	0.285	0.132	0.235	---	---	---	1929
1930	---	---	---	8.07	20.5	7.35	7.97	0.770	0.263	1.61	0.942	---	---	1930
1931	---	---	---	12.7	6.39	1.37	---	---	---	---	---	---	---	1931
MEAN	0.084	0.059	0.289	10.7	11.2	8.10	6.93	2.64	2.33	3.49	2.96	0.338	3.22	MEAN

LOCATION - LAT 50 03 03 N DRAINAGE AREA, 1 530 km²
LONG 96 26 45 W NATURAL FLOW

BROKENHEAD RIVER AT ST. OUENS - STATION NO. 05SA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	36.8 ON JUL 18	0 B ON JAN 1 *	149 000	1914
1915	---	23.8 ON MAY 11	0.057 ON AUG 31	105 000	1915
1916	---	47.0 ON APR 19	0.142B ON JAN 1	164 000	1916
1917	---	13.3 ON APR 21	0.028B ON DEC 8	43 000	1917
1918	---	8.86 ON NOV 24	0 B ON FEB 1	51 400	1918
1919	---	44.7 ON JUL 9	0.028B ON FEB 23	136 000	1919
1920	---	27.0 B ON APR 18	0 B ON JAN 6	92 500	1920
1921	---	11.4 B ON APR 13	0.028B ON JAN 1	72 300	1921
1922	---	30.3 ON MAY 20	0.028B ON FEB 3	---	1922
1923	---	95.7 ON APR 24 *	---	---	1923
1924	---	69.7 ON APR 27	---	---	1924
1925	---	36.0 ON JUN 27	---	---	1925
1926	---	---	---	---	1926
1927	---	63.7 ON MAY 14	---	---	1927
1928	---	55.5 ON JUN 23	---	---	1928
1929	---	---	---	---	1929
1930	---	43.6 ON MAY 16	---	---	1930
1931	---	26.4 ON APR 11	---	---	1931
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		102 000	MEAN

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05SA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	---	3.45	0.311	0.172	0.634	0.419	---	---	---	1942
1943	---	---	---	9.77	6.89	17.1	7.90	0.808	0.520	0.246	---	---	---	1943
1944	---	---	---	2.43	1.60	14.2	4.58	4.37	18.0	3.69	9.50	---	---	1944
1945	---	---	---	27.3	14.8	3.68	2.29	0.222	3.24	4.06	---	---	---	1945
1946	---	---	---	10.3	4.21	0.789	0.595	0.045	0.179	1.15	---	---	---	1946
1947	---	---	---	---	12.7	4.98	1.35	4.29	1.07	3.43	---	---	---	1947
1948	---	---	---	15.3	15.6	0.989	1.37	2.60	0.351	0.069	---	---	---	1948
1949	---	---	---	8.57	5.87	1.61	0.318	0.610	0.309	4.96	---	---	---	1949
1950	---	---	---	15.2	51.4	9.97	4.17	0.721	3.01	6.69	---	---	---	1950
1951	---	---	---	9.53	8.49	4.98	0.774	0.313	0.997	0.863	---	---	---	1951
1952	---	---	---	1.51	0.142	0.246	0.530	0.048	0.008	0.057	---	---	---	1952
1953	---	---	---	3.17	1.25	5.76	6.69	0.948	0.848	0.493	---	---	---	1953
1954	---	---	---	5.47	11.9	14.2	4.68	0.510	5.01	9.65	5.93	---	---	1954
1955	---	---	---	30.1	10.8	7.58	1.99	0.155	0.023	0.312	---	---	---	1955
1956	---	---	0	8.82	12.5	5.00	2.36	0.796	4.81	2.12	---	---	---	1956
1957	---	---	3.79	15.8	11.4	10.3	5.53	0.994	0.395	0.282	0.286	0.091	---	1957
1958	0.041	0.028	0.276	0.917	0.250	0.052	6.06	1.43	0.209	0.354	0.425	0.281	0.872	1958
1959	0.125	0.015	0.009	14.9	18.6	27.8	6.19	5.92	13.2	28.1	13.0	1.10	10.8	1959
1960	0.053	0.031	1.72	37.4	13.7	4.98	1.80	0.544	0.248	0.177	0.673	0.215	5.10	1960
1961	0.003	0.024	1.20	3.96	3.77	0.424	0.089	0.211	0.062	0.144	0.047	0.036	0.835	1961
1962	0.025	0.015	0.040	2.55	14.5	15.5	9.68	13.5	3.29	1.18	1.42	0.750	5.23	1962
1963	0.087	0.023	2.60	15.5	10.0	19.3	8.59	1.74	0.431	0.243	0.264	0.099	4.89	1963
1964	0.007	0	0	9.69	14.4	5.45	2.02	0.401	0.961	2.23	0.831	0.174	3.01	1964
1965	0.104	0.066	0.033	13.1	10.7	9.12	7.79	1.21	2.34	2.87	2.36	1.60	4.28	1965
1966	0.185	0.157	0.600	37.6	33.8	14.3	19.4	0.854	3.52	2.37	2.25	0.196	9.63	1966
1967	0.443	0.319	1.50	32.7	17.4	2.64	1.03	0.601	0.053	0.042	0.122	---	---	1967
1968	---	---	---	3.59	5.74	9.09	5.19	5.05	8.40	3.44	2.01	---	---	1968
1969	---	---	0.178	17.7	8.72	8.78	4.19	1.08	0.488	1.52	0.724	0.512	---	1969
1970	0.227	0.084	0.032	12.7	24.1	23.2	3.24	0.379	0.504	0.739	3.87	0.104	5.76	1970
1971	0.029	0.020	0.014	17.1	7.60	2.87	1.04	0.486	0.101	1.19	1.74	0.286	2.70	1971
1972	0.104	0.085	0.307	11.9	6.33	1.95	0.191	0.161	0.446	1.06	0.786	0.092	1.94	1972
1973	0.071	0.073	3.31	2.46	2.14	11.7	4.61	2.14	8.78	14.0	3.89	1.69	4.59	1973
1974	0.393	0.226	0.207	54.1	53.7	14.1	0.422	0.071	0.102	0.208	0.185	0.088	10.3	1974
1975	0.031	0.060	0.133	5.27	6.60	9.97	4.41	0.770	0.760	0.753	0.702	0.154	2.47	1975
1976	0.119	0.097	0.091	15.0	4.63	4.19	1.75	0.098	0.022	0.036	0.030	0.017	2.16	1976
1977	0.034	0.015	0.039	0.686	0.171	1.32	1.40	0.616	10.8	6.48	1.86	0.430	1.99	1977
1978	0.188	0.159	0.358	28.7	15.5	4.91	2.95	0.380	0.081	0.114	0.118	0.090	4.46	1978
1979	0.057	0.054	0.094	17.0	23.4	12.3	0.690	0.060	0.636	0.161	0.274	0.152	4.58	1979
1980	0.093	0.071	0.100	7.66	1.41	0.145	0.049	0.060	0.070	0.234	0.355	0.099	0.854	1980
1981	0.024	0.133	0.952	0.940	0.252	0.630	0.743	0.072	1.01	2.90	1.73	0.313	0.811	1981
1982	0.068	0.042	0.383	8.24	3.98	5.80	3.17	1.51	0.230	2.23	1.03	0.696	2.28	1982
MEAN	0.109	0.078	0.691	13.7	11.8	7.69	3.47	1.39	2.35	2.71	2.01	0.386	4.07	MEAN

LOCATION - LAT 50 05 25 N   DRAINAGE AREA, 1 580 km²
LONG 96 25 46 W   NATURAL FLOW

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05SA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	31.1 B ON APR 9	---	---	1943
1944	---	35.7 ON SEP 8	0 B ON APR 1 *	---	1944
1945	---	53.2 ON MAR 27	---	---	1945
1946	---	27.7 B ON MAR 24	---	---	1946
1947	---	26.1 B ON APR 14	---	---	1947
1948	---	39.4 ON APR 29	---	---	1948
1949	---	22.1 ON APR 12	---	---	1949
1950	---	99.4 ON MAY 11	---	---	1950
1951	---	13.8 B ON APR 7	---	---	1951
1952	---	3.65B ON APR 11	0 ON MAR 24	---	1952
1953	---	13.4 ON JUL 5	---	---	1953
1954	---	34.0 ON SEP 29	---	---	1954
1955	---	74.5 ON APR 8	0 ON SEP 4	---	1955
1956	---	20.4 B ON APR 23	0 B ON MAR 1	---	1956
1957	---	30.9 ON APR 25	---	---	1957
1958	---	11.5 ON JUL 25	0.028B ON JAN 15	27 500	1958
1959	---	60.6 ON JUN 11	0 B ON FEB 16	340 000	1959
1960	---	82.7 ON APR 16	0 B ON FEB 12	161 000	1960
1961	---	7.08 ON MAY 2	0 B ON JAN 5	26 300	1961
1962	---	45.3 ON MAY 27	0.014B ON FEB 11	165 000	1962
1963	---	39.9 B ON APR 8	0.020B ON FEB 16	154 000	1963
1964	---	36.2 B ON APR 19	0 B ON JAN 11	95 300	1964
1965	---	30.3 B ON APR 14	0.017B ON MAR 26	135 000	1965
1966	---	51.5 ON APR 15	0.017B ON JAN 28	304 000	1966
1967	---	47.0 ON APR 22	---	---	1967
1968	---	17.4 ON JUN 15	---	---	1968
1969	38.2 AT 05:58 CST ON APR 12	36.5 ON APR 13	---	---	1969
1970	46.4 AT 22:16 CST ON MAY 30	46.2 ON MAY 30	0 B ON FEB 15	182 000	1970
1971	44.7 AT 08:51 CST ON APR 9	37.7 ON APR 11	0.011B ON MAR 21	85 200	1971
1972	24.3 B AT 22:09 CST ON APR 16	22.5 B ON APR 16	0.057 ON SEP 2	61 400	1972
1973	41.9 AT 20:22 CST ON JUN 20	37.7 ON JUN 21	0.068B ON JAN 5	145 000	1973
1974	---	163 A ON APR 23 *	0.045B ON DEC 31	326 000	1974
1975	51.0 AT 07:47 CST ON JUN 23	45.9 ON JUN 23	0.021B ON JAN 21	78 000	1975
1976	---	21.8 ON APR 19	0.014B ON DEC 11	68 300	1976
1977	---	19.0 ON SEP 10	0 B ON MAR 10	62 700	1977
1978	---	54.9 B ON APR 16	0.034 ON SEP 11	141 000	1978
1979	73.0 B AT 16:20 CST ON APR 19 *	65.3 B ON APR 19	0.029 ON AUG 5	144 000	1979
1980	22.0 AT 01:30 CST ON APR 8	18.9 B ON APR 8	0.010 ON JUL 30	27 000	1980
1981	3.91 AT 21:59 CST ON OCT 29	3.70B ON APR 3	0.001B ON JAN 4	25 600	1981
1982	23.6 B AT 08:11 CST ON APR 17	19.7 B ON APR 17	0 B ON MAR 14	72 000	1982
				128 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05SA004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	17.3	6.29	2.31	0.913	0.042	0.026	0.024	---	---	---	1960
1961	---	---	0.503	1.31	1.26	0.072	0.003	0.002	0.139	0.218	---	---	0.438	1961
1962	---	---	0.006	1.04	3.80	4.39	3.11	6.01	1.30	0.528	---	---	2.53	1962
1963	---	---	0.943	4.76	3.33	6.32	3.83	0.570	0.069	0.301	---	---	2.50	1963
1964	---	---	0	3.97	5.99	2.31	1.10	0.129	0.364	1.03	---	---	1.86	1964
1965	---	---	0	5.96	4.28	3.97	3.43	0.334	0.816	0.999	---	---	2.46	1965
1966	---	---	0.269	15.6	13.0	7.15	9.90	0.265	1.82	0.893	---	---	6.09	1966
1967	---	---	0.239	16.5	7.46	0.657	0.027	0.016	0	0	---	---	3.08	1967
1968	---	---	0.331	1.32	1.29	2.90	0.769	1.08	2.45	1.38	---	---	1.43	1968
1969	---	---	0	7.63	5.09	4.17	1.30	0.137	0.102	0.245	---	---	2.31	1969
1970	---	---	0	4.88	8.48	7.68	0.641	0.108	0.205	0.102	---	---	2.74	1970
1971	---	---	0.023	5.49	2.31	0.296	0.147	0.010	0.151	0.455	---	---	1.10	1971
1972	---	---	0.008	5.00	2.29	0.513	0.011	0.009	0.042	0.198	---	---	0.999	1972
1973	---	---	1.23	0.361	0.402	1.79	0.815	0.291	3.02	5.20	---	---	1.64	1973
1974	---	---	0	21.9	21.7	6.61	0.068	0.001	0	0	---	---	6.25	1974
1975	---	---	0	1.65	2.41	2.74	2.00	0.394	0.163	0.107	---	---	1.18	1975
1976	---	---	0.005	5.38	1.91	2.36	1.35	0.070	0	0	---	---	1.37	1976
1977	---	---	0	0.065	0.067	0.224	0.216	0.051	2.87	2.61	---	---	0.758	1977
1978	---	---	0.004	11.3	5.87	2.08	0.132	0	0	0	---	---	2.40	1978
1979	---	---	0	5.02	9.16	5.02	0.155	0.055	0.147	0.068	---	---	2.44	1979
1980	---	---	0.005	2.28	0.255	0.006	0	0	0	0.027	---	---	0.317	1980
1981	---	---	0.057	0.089	0.006	0.015	0.075	0	0.070	0.570	---	---	0.111	1981
1982	---	---	0.083	3.41	1.23	1.78	0.761	0.637	0.072	1.07	---	---	1.12	1982
MEAN	---	---	0.168	6.18	4.69	2.84	1.34	0.444	0.601	0.697	---	---	2.05	MEAN

LOCATION - LAT 49 53 07 N   DRAINAGE AREA, 847 km^2
LONG 96 21 57 W   NATURAL FLOW

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05SA004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	40.8 ON APR 15	0 ON AUG 15 *	---	1960
1961	---	2.79 B ON MAR 30	0 B ON MAR 1	9 270	1961
1962	---	11.5 ON MAY 27	0.086B ON MAR 1	53 500	1962
1963	---	9.12 ON JUL 1	0 B ON MAR 1	52 900	1963
1964	---	11.4 ON APR 17	0 B ON MAR 1	39 300	1964
1965	---	11.8 ON APR 16	0 ON MAR 1	52 100	1965
1966	---	21.9 ON APR 13	0.017 ON AUG 25	129 000	1966
1967	---	26.4 ON APR 24	0 ON JUL 19	65 400	1967
1968	---	4.59 ON JUN 15	0 ON MAR 1	30 300	1968
1969	---	32.3 ON APR 14	0 B ON MAR 1	49 000	1969
1970	13.2 AT 16:15 CST ON MAY 30	13.2 ON MAY 30	0 B ON MAR 1	58 000	1970
1971	11.3 AT 16:07 CST ON APR 8	9.03 ON APR 13	0 B ON MAR 1	23 300	1971
1972	10.6 AT 14:28 CST ON APR 18	10.5 ON APR 18	0 B ON MAR 1	21 200	1972
1973	8.07 AT 10:05 CST ON OCT 15	8.01 ON OCT 15	0 B ON MAR 1	34 600	1973
1974	75.3 AT 06:51 CST ON APR 24 *	74.5 ON APR 24 *	0 B ON MAR 1	132 000	1974
1975	6.00 AT 14:01 CST ON JUL 1	5.95 ON JUL 1	0 B ON MAR 1	24 900	1975
1976	8.18 AT 23:33 CST ON APR 18	8.13 ON APR 19	0 E ON AUG 25	28 900	1976
1977	4.53 AT 08:48 CST ON SEP 15	4.50 ON SEP 28	0 B ON MAR 1	16 100	1977
1978	24.5 AT 20:43 CST ON APR 21	23.7 ON APR 22	0 B ON MAR 1	50 700	1978
1979	14.4 AT 06:34 CST ON MAY 2	14.3 ON MAY 2	0 B ON MAR 1	51 600	1979
1980	---	6.02 A ON APR 11	0 ON JUN 9	6 700	1980
1981	0.837 AT 00:01 CST ON OCT 31	0.822 ON OCT 31	0 B ON MAR 1	2 350	1981
1982	7.41 AT 14:20 CST ON APR 18	7.36 ON APR 18	0 B ON MAR 1	23 800	1982
				43 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BUFFALO LAKE CHANNEL NEAR ALTONA - STATION NO. 05OC025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0 R	0.058R	0.090R	0.076R	0 R	0 R	0.019R	0.012R	---	---	0.032R	1977
1978	---	---	0.840R	5.67 R	0.273R	0.505R	0.001R	0 R	0.041R	0.073R	---	---	0.912R	1978
1979	---	---	0	17.2	1.39	0.364	0.106	0.014	0.006	0	---	---	2.35	1979
1980	---	---	0.041	0.400	0.013	0	0.015	0.016	0.013	0.010	---	---	0.063	1980
1981	---	---	0.299	0.044	0.031	0.028	0	0	0	0	---	---	0.051	1981
1982	---	---	0.132	2.17	0.086	0.140	0.004	0	0	0.138	---	---	0.328	1982
MEAN	---	---	0.219R	4.26 R	0.314R	0.186R	0.021R	0.005R	0.013R	0.039R	---	---	0.623	MEAN

LOCATION - LAT 49 05 28 N LONG 97 36 35 W DRAINAGE AREA, 448 km^2 NATURAL FLOW

R - REVISED SINCE JAN 1980

BUFFALO LAKE CHANNEL NEAR ALTONA - STATION NO. 05OC025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	0.570RB ON APR 3	0RB ON MAR 1 *	672R	1977
1978	---	31.1 RB ON APR 9	0RB ON MAR 1	19 300R	1978
1979	---	127 A ON APR 20 *	0B ON MAR 1	49 700	1979
1980	---	2.50 B ON APR 2	0B ON MAR 1	1 330	1980
1981	---	0.866B ON MAR 14	0 ON APR 15	1 070	1981
1982	---	17.0 B ON APR 13	0B ON MAR 1	6 950	1982
				13 200R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980

BURNT LAKE DRAIN NO. 1 NEAR DEERHORN - STATION NO. 05LH002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.53	0.961	0.365	0.092	0.042	0.003	0	---	---	0.709	1960
1961	---	---	0.048	0.234	0.106	0	0	0	0	0	---	---	0.097	1961
1962	---	---	0	0.109	0.071	0.064	0	0.013	0.006	0.001	---	---	0.060	1962
1963	---	---	0.036	1.64	0.555	4.81	1.57	0.571	0.057	0	---	---	1.74	1963
1964	---	---	0	0.059	0.083	0.002	0	0	0	0	---	---	0.036	1964
1965	---	---	0	0.554	1.26	0.729	0.111	0.037	0.018	0.006	---	---	0.636	1965
1966	---	---	0.286	1.53	1.02	0.086	0.006	0	0	0	---	---	0.727	1966
1967	---	---	0	0.695	0.392	0.013	0.009	0	0	0	---	---	0.274	1967
1968	---	---	0	0.027	0.020	0.032	0.004	0.053	0.503	0.073	---	---	0.019	1968
1969	---	---	0	1.06	0.286	0.050	0.035	0.090	0.007	0.010	---	---	0.335	1969
1970	---	---	0	0.586	1.09	0.171	0.047	0.001	0	0	---	---	0.462	1970
1971	---	---	0	0.261	0.093	0.007	0.006	0	0	0	---	---	0.090	1971
1972	---	---	0	0.273	0.072	0.006	0.001	0.001	0	0	---	---	0.087	1972
1973	---	---	0.016	0.008	0.005	0.070	---	0.021	0.011	0.027	---	---	0.024	1973
1974	---	---	0	2.09	4.07	0.944	---	0.051	0.020	0.011	---	---	1.78	1974
1975	---	---	0	0.101	---	---	---	2.29	2.05	0.765	---	---	---	1975
1976	---	---	0.144	8.50	2.45	0.560	---	0.034	0.005	0.005	---	---	2.89	1976
1977	---	---	0.003	0.029	0.055	0.049	---	---	---	---	---	---	0.034	1977
1978	---	---	0	0.955	0.311	0.066	---	---	---	---	---	---	0.330	1978
1979	---	---	0	0.805	3.74	1.54	---	---	---	---	---	---	1.53	1979
1980	---	---	0	0.280	0.090	0.016	---	---	---	---	---	---	0.095	1980
1981	---	---	0.031	0.199	0.061	0.032	---	---	---	---	---	---	0.080	1981
1982	---	---	0.007	0.357	0.250	0.148	---	---	---	---	---	---	0.190	1982
MEAN	---	---	0.025	0.951	0.773	0.444	0.145	0.188	0.158	0.053	---	---	0.556	MEAN

LOCATION - LAT 50 45 39 N DRAINAGE AREA, 334 km^2
LONG 98 02 27 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BURNT LAKE DRAIN NO. 1 NEAR DEERHORN - STATION NO. 05LH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	4.30 ON APR 19	0 B ON MAR 1 *	7 480	1960
1961	---	0.368 ON MAR 30	0 B ON MAR 1	1 020	1961
1962	---	0.685 ON APR 22	0 B ON MAR 1	636	1962
1963	---	12.3 ON JUN 12	0 B ON MAR 1	18 300	1963
1964	---	0.266B ON APR 20	0 B ON MAR 1	380	1964
1965	---	4.42 ON MAY 28	0 B ON MAR 1	6 710	1965
1966	---	4.66 B ON APR 1	0 B ON MAR 1	7 670	1966
1967	---	2.63 B ON APR 17	0 B ON MAR 1	2 880	1967
1968	---	0.093 ON APR 12	0 B ON MAR 1	205	1968
1969	---	2.94 ON APR 17	0 B ON MAR 1	3 530	1969
1970	---	2.41 B ON APR 19	0 B ON MAR 1	4 870	1970
1971	---	0.719 ON APR 19	0 B ON MAR 1	946	1971
1972	---	1.16 ON APR 18	0 E ON MAR 1	917	1972
1973	---	0.193 ON JUN 21	0 B ON MAR 1	256	1973
1974	---	5.55 ON MAY 3	0 B ON MAR 1	18 800	1974
1975	---	---	---	---	1975
1976	---	13.0 ON APR 20 *	0.144B ON MAR 1	30 400	1976
1977	---	0.176 ON MAY 19	0 B ON MAR 1	357	1977
1978	---	2.29 ON APR 18	0 B ON MAR 1	3 470	1978
1979	---	5.35 ON MAY 3	0 B ON MAR 1	16 100	1979
1980	---	0.800 ON APR 18	0 B ON MAR 1	1 010	1980
1981	0.321 AT 00:00 CST ON APR 8 *	0.312E ON APR 4	0 B ON MAR 1	846	1981
1982	---	1.03 B ON APR 16	0 B ON MAR 1	2 000	1982
MEAN				5 850	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

BURNT LAKE DRAIN NO. 2 NEAR LUNDAR - STATION NO. 05LN003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	2.82	1.43	0.384	0.125	0.008	0	0	---	---	0.590	1960
1961	---	---	0.076	0.190	0.109	0.001	0	0	0.006	0	---	---	0.048	1961
1962	---	---	0	0.419	0.107	0.084	0	0.027	0.003	0	---	---	0.079	1962
1963	---	---	0.158	3.51	0.603	6.77	2.00	0.754	0.191	0.076	---	---	1.74	1963
1964	---	---	0	0.308	0.229	0.009	0	0	0	0	---	---	0.068	1964
1965	---	---	0	0.757	1.32	0.752	0.139	0.036	0.020	0.013	---	---	0.378	1965
1966	---	---	0.234	1.79	1.91	0.143	0.014	0	0	0	---	---	0.509	1966
1967	---	---	0	1.43	0.485	0.029	0.001	0	0	0	---	---	0.241	1967
1968	---	---	0.032	0.191	0.067	0.080	0.008	0.044	0.829	0.131	---	---	0.170	1968
1969	---	---	0	1.83	0.298	0.056	0.039	0.218	0.012	0.013	---	---	0.304	1969
1970	---	---	0	1.19	1.29	0.201	0.059	0.003	0.001	0.001	---	---	0.341	1970
1971	---	---	0	0.487	0.117	0.013	0.031	0	0	0.001	---	---	0.080	1971
1972	---	---	0	0.708	0.108	0.010	0	0.001	0	0	---	---	0.102	1972
1973	---	---	0.055	0.009	0.009	0.333	0.034	0.020	0.015	0.055	---	---	0.065	1973
1974	---	---	0	4.52	11.0	2.94	0.204	0.057	0.032	0.016	---	---	2.35	1974
1975	---	---	0	0.390	0.718	0.324	0.096	5.16	7.62	4.83	---	---	2.39	1975
1976	---	---	0.142	16.1	5.50	1.04	0.490	0.036	0.005	0.006	---	---	2.88	1976
1977	---	---	0.019	0.092	0.123	0.182	0.260	0.060	0.221	0.241	---	---	0.150	1977
1978	---	---	0	1.82	0.673	0.147	0.295	0.007	0.018	0.008	---	---	0.367	1978
1979	---	---	0	5.06	7.58	3.60	0.842	0.094	0.032	0.023	---	---	2.14	1979
1980	---	---	0	0.490	0.074	0.024	0.072	0.674	0.523	0.271	---	---	0.265	1980
1981	---	---	0.202	0.371	0.062	0.035	0.480	0.005	0.016	0.103	---	---	0.160	1981
1982	---	---	0.014	0.680	0.419	0.356	0.227	0.053	0.011	0.016	---	---	0.220	1982
MEAN	---	---	0.041	1.96	1.49	0.761	0.235	0.316	0.415	0.252	---	---	0.680	MEAN

LOCATION - LAT 50 43 17 N DRAINAGE AREA, 746 km²
LONG 98 05 24 W NATURAL FLOW

BURNT LAKE DRAIN NO. 2 NEAR LUNDAR - STATION NO. 05LN003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	7.05 ON APR 19	0 B ON MAR 1 *	12 500	1960
1961	---	0.368 ON APR 1	0 B ON MAR 1	1 010	1961
1962	---	3.62 B ON APR 20	0 B ON MAR 1	1 670	1962
1963	---	18.2 ON JUN 11	0 B ON MAR 1	36 700	1963
1964	---	1.01 ON APR 18	0 B ON MAR 1	1 440	1964
1965	---	5.21 ON MAY 27	0 B ON MAR 1	8 000	1965
1966	---	5.35 B ON APR 1	0 B ON MAR 1	10 800	1966
1967	---	6.46 B ON APR 22	0 B ON MAR 1	5 100	1967
1968	---	2.82 ON SEP 3	0 B ON MAR 1	3 610	1968
1969	---	6.14 ON APR 12	0 B ON MAR 1	6 450	1969
1970	---	3.99 B ON APR 18	0 B ON MAR 1	7 220	1970
1971	---	2.13 ON APR 19	0 B ON MAR 1	1 690	1971
1972	---	3.17 ON APR 16	0 B ON MAR 1	2 160	1972
1973	---	1.36 ON JUN 20	0 B ON MAR 1	1 390	1973
1974	---	14.4 ON MAY 22	0 B ON MAR 1	49 600	1974
1975	---	14.2 ON AUG 25	0 B ON MAR 1	50 500	1975
1976	---	27.9 ON APR 15 *	0.001B ON OCT 26	60 900	1976
1977	---	0.688 ON SEP 9	0 B ON MAR 1	3 170	1977
1978	---	3.45 ON APR 15	0 B ON MAR 1	7 780	1978
1979	19.6 AT 02:15 CST ON APR 21 *	18.5 ON APR 21	0 B ON MAR 1	45 400	1979
1980	7.03 AT 12:30 CST ON AUG 21	5.78 ON AUG 21	0 B ON MAR 1	5 610	1980
1981	6.74 AT 04:46 CST ON JUL 3	4.15 ON JUL 3	0 B ON MAR 1	3 380	1981
1982	2.66B AT 08:44 CST ON APR 15	2.27 B ON APR 15	0 B ON MAR 1	4 660	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 400	MEAN

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	9.42	7.11	5.52	27.3	74.7	80.5	58.3	41.3	38.5	30.0	29.4	15.3	34.9	1977
1978	11.8	8.94	5.52	5.73	---	33.8	---	36.8	27.1	68.9	32.5	17.8	---	1978
1979	12.6	8.97	6.34	5.86	69.7	98.4	51.0	---	---	40.6	22.7	12.0	---	1979
1980	9.25	8.06	7.67	24.1	25.3	19.2	17.1	---	74.1	64.4	34.1	19.0	---	1980
1981	14.1	9.73	7.22	5.86	83.7	38.4	30.4	25.3	13.0	22.5	22.9	13.3	24.0	1981
1982	10.7	8.08	6.72	12.3	132	82.2	40.2	30.4	23.0	23.6	17.3	10.2	33.2	1982
MEAN	11.3	8.48	6.50	13.5	77.1	58.8	39.4	33.5	35.1	41.7	26.5	14.6	30.7	MEAN

LOCATION - LAT 55 27 50 N DRAINAGE AREA, 6 660 km²
LONG 99 06 00 W NATURAL FLOW

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	131 ON MAY 27	130 ON MAY 28	4.96B ON MAR 30	1 100 000	1977
1978	---	85.8 ON OCT 5	4.53B ON APR 21	---	1978
1979	130 AT 20:40 CST ON JUN 2	130 ON JUN 2	4.30B ON APR 21 *	---	1979
1980	---	---	7.59B ON MAR 26	---	1980
1981	160 AT 13:30 CST ON MAY 9	156 ON MAY 9	5.51B ON APR 28	758 000	1981
1982	194 AT 16:10 CST ON MAY 3 *	188 ON MAY 3 *	5.78B ON APR 23	1 050 000	1982
				969 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	63.7	50.3	37.4	---	1957
1958	28.1	21.7	22.3	44.5	132	158	118	88.4	80.7	131	120	75.1	85.4	1958
1959	41.0	32.3	16.1	16.1	213	460	342	204	185	161	119	71.2	156	1959
1960	38.4	27.4	24.5	21.5	141	410	238	107	58.2	32.9	23.6	13.7	94.7	1960
1961	9.45	8.39	7.83	8.52	68.9	158	108	74.2	45.0	32.6	27.7	24.1	47.9	1961
1962	20.0	17.5	15.3	13.1	264	440	268	127	76.4	60.0	48.3	36.7	116	1962
1963	27.5	21.8	18.9	25.2	242	296	199	125	124	120	134	70.7	118	1963
1964	36.0	25.0	21.2	21.4	196	224	119	135	239	222	143	84.5	122	1964
1965	56.0	40.9	28.7	23.8	254	408	279	137	94.7	98.3	86.2	63.8	131	1965
1966	49.6	39.6	28.7	25.8	176	508	380	188	98.9	51.5	28.9	21.8	133	1966
1967	20.2	19.0	16.5	14.5	76.4	298	230	146	68.6	42.0	34.4	29.4	83.2	1967
1968	28.0	23.6	20.1	21.3	191	260	182	119	98.0	167	158	107	115	1968
1969	67.4	36.1	25.1	55.5	156	168	124	79.6	182	369	266	156	141	1969
1970	80.8	53.5	35.8	25.9	139	267	352	205	127	100	152	117	139	1970
1971	67.6	43.4	31.0	44.8	201	227	242	221	185	224	266	191	163	1971
1972	119	80.3	62.7	41.8	257	263	235	175	134	155	128	83.1	145	1972
1973	54.7	39.5	32.1	23.8	127	185	169	133	103	88.8	82.0	70.2	92.7	1973
1974	53.1	40.9	25.2	23.6	183	181	124	65.4	41.9	33.0	25.5	18.6	68.2	1974
1975	16.2	15.6	12.9	13.8	89.4	166	140	104	70.0	88.8	62.1	28.3	67.5	1975
1976	40.1	62.9	65.0	68.0	84.1	146	238	181	163	281	333	352	168	1976
1977	370	369	350	404	485	540	534	570	845	911	933	924	604	1977
1978	877	861	856	691	642	853	913	887	863	966	953	930	858	1978
1979	925	935	927	890	778	902	798	790	822	851	915	894	868	1979
1980	854	866	900	918	859	825	864	878	941	938	939	974	897	1980
1981	981	982	935	944	957	950	1 060	1 060	925	688	667	655	900	1981
1982	583	581	589	588	830	665	694	878	980	1 010	1 010	991	785	1982
MEAN	218	210	203	199	310	398	358	307	302	303	296	270	284	MEAN

LOCATION - LAT 55 44 40 N   DRAINAGE AREA, 18 100 km^2
LONG 97 53 30 W   REGULATED SINCE 1973

REMARKS - DISCHARGE RECORDS FOR 1957-61 WERE PUBLISHED UNDER THE TITLE "BURNTWOOD RIVER AT MANASAN FALLS"

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	168 ON JUN 13	20.4 B ON FEB 13	2 690 000	1958
1959	---	496 ON JUN 19	11.9 B ON APR 8	4 900 000	1959
1960	---	459 ON JUN 8	11.8 E ON DEC 21	2 990 000	1960
1961	---	164E ON JUN 11	7.79E ON MAR 21 *	1 510 000	1961
1962	507 AT 09:00 CST ON MAY 30	504 ON MAY 29	12.6 B ON APR 24	3 660 000	1962
1963	---	331 ON MAY 31	17.8 B ON APR 4	3 710 000	1963
1964	278 AT 17:00 CST ON SEP 22	277 ON SEP 22	16.8 B ON APR 10	3 870 000	1964
1965	450 AT 14:30 CST ON JUN 12	450 ON JUN 12	20.2 ON APR 22	4 140 000	1965
1966	---	578 ON JUN 19	19.9 ON DEC 31	4 210 000	1966
1967	314 AT 16:30 CST ON JUN 13	311E ON JUN 11	14.0 A ON APR 27	2 630 000	1967
1968	---	297 ON MAY 26	18.4 ON APR 3	3 630 000	1968
1969	416 AT 13:00 CST ON OCT 16	416 ON OCT 15	21.3 E ON MAR 29	4 440 000	1969
1970	---	396 ON JUL 8	21.0 ON APR 16	4 370 000	1970
1971	300 AT 05:56 CST ON NOV 7	300 ON NOV 7	27.2 ON APR 14	5 130 000	1971
1972	294 AT 06:41 CST ON MAY 26	289 ON MAY 23	29.7 E ON APR 23	4 580 000	1972
1973	---	196 ON JUN 4	21.0 ON APR 28	2 920 000	1973
1974	220 AT 08:30 CST ON MAY 17	216 ON MAY 17	14.8 ON APR 18	2 150 000	1974
1975	186 AT 06:00 CST ON JUL 2	178 ON JUN 29	10.3 ON APR 12	2 130 000	1975
1976	377 AT 17:30 CST ON DEC 31	374 ON DEC 30	22.5 ON JAN 1	5 320 000	1976
1977	943 AT 12:00 CST ON NOV 16	940 ON NOV 15	340 B ON APR 2	19 100 000	1977
1978	---	980 ON OCT 13	600 B ON APR 29	27 100 000	1978
1979	---	937B ON FEB 15	682 B ON MAY 13	27 400 000	1979
1980	981 AT 21:25 CST ON SEP 28	979 ON SEP 24	769 ON MAY 30	28 400 000	1980
1981	1 130 AT 21:30 CST ON JUL 26 *	1 120 ON JUL 25 *	619 B ON DEC 31	28 400 000	1981
1982	1 030 AT 10:04 CST ON SEP 29	1 030 ON SEP 29	575 B ON JAN 19	24 700 000	1982
				8 960 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 06EA006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1949	---	---	---	---	---	---	---	---	---	---	---	---	---	1949
1951	---	---	---	---	---	---	---	1 060	1 020	954	827	705	---	1951
1952	648	623	612	595	617	592	603	612	571	583	595	589	603	1952
1953	555	535	535	532	612	670	670	678	636	628	609	620	607	1953
1954	612	595	578	558	566	742	778	939	1 270	1 230	1 150	1 010	837	1954
1955	841	714	680	704	1 020	1 130	1 090	958	822	726	765	816	856	1955
1956	776	722	668	634	697	794	638	564	539	537	535	535	636	1956
1957	547	561	558	547	694	846	816	880	758	706	673	663	688	1957
1958	665	666	652	657	792	894	927	881	817	879	814	775	786	1958
1959	738	690	644	622	770	1 140	1 420	1 340	1 200	1 0[illegible]0	958	821	953	1959
1960	732	700	688	678	779	1 200	1 480	1 520	1 290	1 140	994	847	1 010	1960
1961	771	715	709	720	862	1 080	1 010	830	691	661	706	690	788	1961
1962	693	708	712	697	964	1 340	1 090	905	833	793	757	726	852	1962
1963	728	743	766	767	912	1 000	1 040	1 080	939	923	840	778	878	1963
1964	736	723	721	781	850	882	719	791	936	1 080	1 010	920	846	1964
1965	863	823	784	764	977	1 120	1 020	953	931	964	929	876	917	1965
1966	798	778	765	813	873	1 010	1 060	917	777	668	656	651	814	1966
1967	655	681	700	699	708	919	947	912	811	676	632	661	751	1967
1968	686	729	767	744	864	836	732	658	669	735	735	706	738	1968
1969	708	732	719	731	850	785	703	644	833	923	839	759	769	1969
1970	729	713	706	702	796	861	1 010	996	873	799	755	737	807	1970
1971	722	683	570	523	663	720	738	1 040	1 240	1 290	1 100	940	854	1971
1972	902	887	871	853	1 110	1 200	1 100	962	852	911	900	854	950	1972
1973	848	844	828	824	940	995	918	879	899	859	839	838	876	1973
1974	815	800	821	849	1 130	1 240	1 420	1 440	1 400	1 310	1 150	1 040	1 120	1974
1975	940	896	932	924	1 120	1 270	1 160	1 140	1 120	1 100	961	814	1 030	1975
1976	790	813	804	811	748	686	998	1 130	1 160	1 260	1 200	987	950	1976
1977	897	879	876	909	1 030	1 190	1 420	1 460	1 370	1 080	918	858	1 070	1977
1978	857	878	860	814	861	881	924	873	853	1 040	1 130	994	914	1978
1979	918	888	903	881	937	1 050	928	776	696	791	909	899	881	1979
1980	903	887	888	905	899	720	693	706	810	---	---	---	---	1980
1981	---	820	777	751	822	762	664	580	---	---	---	---	---	1981
1982	613	585	558	513	683	662	633	527	546	507	496	614	578	1982
MEAN	756	742	731	726	843	942	947	926	908	894	846	791	840	MEAN

LOCATION - LAT 56 09 00 N DRAINAGE AREA, 228 000 km²
LONG 100 27 30 W REGULATED SINCE 1928

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 06EA006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1949	---	1 700 ON AUG 29 *	---	---	1949
1951	---	---	---	---	1951
1952	---	648E ON JAN 1	564 ON SEP 14	19 100 000	1952
1953	---	711 ON AUG 6	532E ON APR 1	19 200 000	1953
1954	---	1 290E ON SEP 7	558E ON APR 1	26 400 000	1954
1955	---	1 170 ON MAY 29	680E ON MAR 1	27 000 000	1955
1956	---	810E ON JUN 1	521E ON SEP 27	20 100 000	1956
1957	---	903 ON AUG 14	547E ON JAN 1	21 700 000	1957
1958	---	934E ON JUL 11	637E ON APR 11	24 800 000	1958
1959	1 460 AT 18:00 CST ON JUL 15	1 450 ON JUL 14	620E ON APR 13	30 100 000	1959
1960	---	1 560E ON AUG 1	668E ON MAY 1	31 800 000	1960
1961	---	1 100E ON JUN 11	643 ON SEP 27	24 900 000	1961
1962	---	1 370E ON JUN 1	685E ON JAN 1	26 900 000	1962
1963	---	1 180 ON JUL 29	725 ON JAN 1	27 700 000	1963
1964	---	1 100 ON OCT 10	665 ON JUL 31	26 800 000	1964
1965	---	1 160E ON JUN 1	759E ON APR 21	28 900 000	1965
1966	---	1 110 ON JUL 1	646 ON NOV 24	25 700 000	1966
1967	---	968E ON JUN 19	629 ON NOV 3	23 700 000	1967
1968	---	898E ON JUN 3	637 ON AUG 24	23 400 000	1968
1969	---	934 ON OCT 13	637 ON AUG 12	24 300 000	1969
1970	---	1 060 ON JUL 21	697 ON MAR 25	25 500 000	1970
1971	1 340 AT 01:13 CST ON OCT 13	1 330 ON OCT 12	501 ON APR 16	26 900 000	1971
1972	1 220 AT 20:29 CST ON JUN 16	1 220 ON JUN 17	824 ON SEP 21	30 100 000	1972
1973	1 020 AT 19:00 CST ON MAY 23	1 020 ON MAY 23	816 ON APR 12	27 600 000	1973
1974	---	1 480 ON JUL 24	793 ON FEB 19	35 300 000	1974
1975	1 300 AT 17:15 CST ON JUN 12	1 290 ON JUN 8	784 ON DEC 25	32 500 000	1975
1976	1 300 AT 20:05 CST ON OCT 26	1 300 ON OCT 27	660 ON JUN 14	30 000 000	1976
1977	1 480 AT 19:00 CST ON JUL 26 *	1 480 ON JUL 22	847 ON DEC 20	33 900 000	1977
1978	1 220 AT 09:50 CST ON NOV 1	1 210 ON OCT 30	801 ON APR 21	28 800 000	1978
1979	1 070 AT 16:49 CST ON JUN 18	1 070 ON JUN 18	685 ON SEP 21	27 800 000	1979
1980	---	975 ON MAY 3	684 ON JUL 3	---	1980
1981	875 AT 17:27 CST ON MAY 20	869 ON MAY 20	---	---	1981
1982	738 AT 18:00 CST ON MAY 22	730 ON MAY 21	468 ON NOV 3 *	18 200 000	1982
MEAN				26 500 000	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

E - ESTIMATED

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 06EB004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	910	901	875	865	985	1 100	1 070	950	937	921	931	916	947	1973
1974	895	864	866	897	1 190	1 410	1 540	1 580	1 520	1 390	1 250	1 140	1 220	1974
1975	1 060	987	996	978	1 180	1 410	1 380	1 300	1 210	1 190	1 090	933	1 140	1975
1976	880	884	887	885	885	855	1 100	1 300	1 330	1 430	1 450	1 260	1 090	1976
1977	1 030	974	960	966	1 220	1 450	1 540	1 590	1 530	1 320	1 100	994	1 220	1977
1978	949	951	939	900	979	1 040	1 060	1 030	1 040	1 140	1 280	1 150	1 040	1978
1979	1 040	966	961	923	963	1 150	1 090	910	823	856	956	982	968	1979
1980	972	962	957	953	1 010	898	847	894	961	1 050	1 000	950	954	1980
1981	941	927	874	827	888	924	804	707	659	665	700	715	802	1981
1982	699	685	662	---	783	---	---	767	750	698	646	685	---	1982
MEAN	938	910	898	910	1 010	1 140	1 160	1 100	1 080	1 070	1 040	973	1 040	MEAN

LOCATION - LAT 56 29 37 N DRAINAGE AREA, 242 000 km²
LONG 100 02 55 W REGULATED SINCE 1928

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 06EB004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	---	1 120 ON JUN 5	855 ON APR 18	29 900 000	1973
1974	1 630 AT 03:00 CST ON JUL 27 *	1 610 ON JUL 21 *	855 ON FEB 25	38 300 000	1974
1975	1 450 AT 23:08 CST ON JUL 1	1 450 ON JUL 1	875 ON DEC 31	36 100 000	1975
1976	1 510 AT 03:12 CST ON NOV 5	1 480 ON OCT 26	833 ON JUN 19	34 600 000	1976
1977	1 610 AT 23:14 CST ON AUG 11	1 610 ON AUG 11	929E ON APR 10	38 600 000	1977
1978	1 320 AT 03:32 CST ON NOV 8	1 310 ON NOV 6	881 ON APR 22	32 700 000	1978
1979	1 210 AT 04:00 CST ON JUN 26	1 190 ON JUN 25	806 ON SEP 26	30 500 000	1979
1980	1 070 AT 06:05 CST ON OCT 31	1 060 ON OCT 14	833 ON JUL 15	30 200 000	1980
1981	973 AT 05:14 CST ON JUN 30	972 ON MAY 30	645 ON SEP 26	25 300 000	1981
1982	---	---	626 ON APR 28 *	---	1982
MEAN				32 900 000	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

E - ESTIMATED

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 06FD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	1 480	1 300	1 140	---	---	---	1 840	1 670	1 750	---	---	---	---	1972
1973	---	1 100	1 120	---	---	---	1 300	1 030	942	1 010	1 030	1 130	---	1973
1974	1 150	1 130	1 070	1 020	1 120	1 420	1 520	1 680	1 650	1 610	1 540	1 420	1 360	1974
1975	1 270	1 150	1 090	1 090	1 240	1 640	1 780	1 760	1 690	1 590	1 390	1 100	1 400	1975
1976	885	791	775	1 110	1 360	1 230	672	657	832	1 300	1 250	1 080	995	1976
1977	750	717	702	789	1 570	1 860	1 690	1 250	1 050	838	499	277	1 000	1977
1978	208	206	203	206	354	1 150	780	1 140	1 290	1 000	747	512	651	1978
1979	400	309	237	186	430	1 030	1 110	---	---	---	212	163	---	1979
1980	149	152	158	274	491	620	733	821	1 650	888	582	345	572	1980
1981	288	226	212	204	---	525	235	151	117	260	204	151	---	1981
1982	137	130	124	119	---	701	655	285	309	328	277	220	---	1982
MEAN	672	656	621	555	938	1 130	1 120	1 040	1 130	980	773	640	996	MEAN

LOCATION - LAT 58 07 15 N DRAINAGE AREA, 287 000 km²
LONG 94 37 30 W REGULATED SINCE 1928

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 06FD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1972	---	---	---	---	1972
1973	---	---	799 ON NOV 7	---	1973
1974	1 740 AT 06:00 CST ON AUG 10	1 720 ON AUG 9	1 020B ON APR 10	43 000 000	1974
1975	1 910 AT 14:57 CST ON JUN 30	1 890 ON JUN 30	988B ON DEC 31	44 200 000	1975
1976	---	1 850E ON JUN 5	634 ON JUL 10	31 500 000	1976
1977	2 000 AT 20:41 CST ON JUL 2 *	1 980 ON JUL 2	210B ON DEC 20	31 600 000	1977
1978	1 870 AT 17:37 CST ON SEP 5	1 850 ON SEP 5	202B ON MAR 25	20 500 000	1978
1979	1 200 AT 06:43 CST ON JUL 17	1 180 ON JUL 17	153B ON DEC 31	---	1979
1980	---	2 220 ON SEP 8 *	146B ON JAN 9	18 100 000	1980
1981	---	---	107 ON SEP 30 *	---	1981
1982	---	---	---	---	1982
MEAN				31 500 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 06FB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	1 490	---	---	---	1960
1962	---	---	---	---	---	---	2 140	1 620	---	---	---	---	---	1962
1963	---	---	---	---	---	---	1 580	---	---	---	---	---	---	1963
1964	---	---	---	---	---	---	1 130	---	---	1 340	1 320	1 290	---	1964
1965	1 200	1 110	1 020	1 100	1 250	1 440	1 410	1 300	1 150	---	---	---	---	1965
1966	---	---	---	---	---	---	---	---	---	924	828	794	---	1966
1967	766	740	---	---	---	---	1 350	1 230	1 090	981	---	---	---	1967
1968	746	767	781	800	929	1 310	1 290	1 100	1 010	1 080	1 070	935	985	1968
1969	798	777	793	851	973	1 100	1 110	967	1 130	1 350	1 270	1 100	1 020	1969
1970	893	815	756	699	924	1 320	1 310	1 290	1 270	1 220	1 230	1 100	1 070	1970
1971	942	893	861	797	1 070	1 100	1 620	1 410	1 390	1 530	1 540	1 380	1 210	1971
1972	1 250	1 170	1 130	1 050	1 240	1 470	1 540	1 430	1 290	1 180	1 100	1 120	1 250	1972
1973	1 100	1 030	992	956	1 120	1 240	1 220	990	918	951	1 040	1 090	1 050	1973
1974	1 110	1 070	1 020	977	1 020	1 270	1 430	1 560	1 550	1 520	1 450	1 370	1 280	1974
1975	1 290	1 190	1 100	1 050	1 190	1 440	1 690	1 660	1 540	1 450	1 320	1 080	1 340	1975
1976	979	804	761	1 100	1 240	884	473	525	775	1 110	1 240	1 160	921	1976
1977	995	867	733	756	1 370	1 750	1 550	1 160	919	748	480	258	966	1977
1978	199	199	199	203	408	956	532	759	892	713	711	609	533	1978
1979	535	377	220	169	281	461	848	497	158	168	177	147	337	1979
1980	129	128	127	171	225	348	463	460	1 150	610	386	290	374	1980
1981	241	207	204	198	271	185	99.3	76.1	64.6	184	183	128	170	1981
1982	120	109	113	113	181	248	375	117	138	200	172	135	169	1982
MEAN	782	721	676	687	856	1 030	1 160	1 010	967	987	913	823	845	MEAN

LOCATION - LAT 57 15 00 N DRAINAGE AREA, 271 000 km²
LONG 96 47 46 W REGULATED SINCE 1928

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 06FB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	1 550 ON JUN 19	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	1 380 ON JUN 22	736 B ON JAN 1	31 100 000	1968
1969	---	1 400 ON OCT 28	776 B ON FEB 3	32 200 000	1969
1970	---	1 340 ON JUN 15	685 B ON APR 14	33 700 000	1970
1971	1 800 AT 15:31 CST ON JUL 13	1 790 ON JUL 13	782 B ON APR 12	38 300 000	1971
1972	---	1 570 ON JUL 22	1 040 ON APR 18	39 500 000	1972
1973	1 260 AT 19:00 CST ON JUN 14	1 260 ON JUN 14	883 ON AUG 26	33 200 000	1973
1974	1 570 AT 22:00 CST ON AUG 29	1 570 ON AUG 18	966 ON APR 17	40 400 000	1974
1975	1 710 AT 20:45 CST ON JUL 9	1 700 ON JUL 8	1 010 B ON DEC 30	42 100 000	1975
1976	1 560 AT 14:30 CST ON JUN 3	1 540 ON JUN 3	453 ON JUL 8	29 100 000	1976
1977	1 920 AT 14:07 CST ON JUN 22 *	1 910 ON JUN 20 *	199 B ON DEC 20	30 500 000	1977
1978	1 470 AT 20:31 CST ON SEP 2	1 460 ON SEP 4	199 B ON JAN 1	16 800 000	1978
1979	902 AT 14:27 CST ON JUL 16	895 ON JUL 16	116 E ON SEP 23	10 600 000	1979
1980	1 710 AT 14:04 CST ON SEP 7	1 710 ON SEP 7	127 B ON MAR 6	11 800 000	1980
1981	371 AT 20:47 CST ON MAY 22	367 ON MAY 22	60.3 ON SEP 20 *	5 360 000	1981
1982	---	513 ON JUL 10	96.1 ON AUG 14	5 330 000	1982
MEAN				26 700 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

COCHRANE RIVER NEAR BROCHET - STATION NO. 06DA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	99.9	88.6	77.5	---	---	---	---	189	169	---	---	---	---	1968
1969	142	112	99.1	89.0	122	---	---	---	---	---	---	---	---	1969
1970	114	106	97.3	---	---	---	128	171	149	169	166	137	---	1970
1971	121	112	103	---	---	---	---	---	201	219	199	165	---	1971
1972	143	117	94.9	97.4	190	242	254	234	226	211	177	166	179	1972
1973	147	133	121	110	163	192	188	170	142	134	125	111	145	1973
1974	104	99.1	96.4	95.7	---	---	175	184	176	161	142	129	---	1974
1975	117	109	103	104	178	212	237	220	190	175	154	138	162	1975
1976	130	126	124	145	187	229	238	187	198	218	199	173	180	1976
1977	155	144	139	172	252	314	366	336	296	268	236	194	240	1977
1978	156	131	116	113	209	260	247	272	272	260	226	195	205	1978
1979	170	141	120	111	161	207	204	168	152	153	140	127	155	1979
1980	115	107	103	131	157	148	153	209	248	220	184	152	161	1980
1981	129	122	119	120	178	206	197	164	145	128	109	94.8	143	1981
1982	89.7	85.7	81.8	79.9	171	214	189	160	151	148	131	117	135	1982
MEAN	129	116	106	114	179	222	215	201	194	190	168	146	171	MEAN

LOCATION - LAT 58 00 00 N DRAINAGE AREA, 25 000 km²
LONG 101 23 45 W NATURAL FLOW

COCHRANE RIVER NEAR BROCHET - STATION NO. 06DA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	265 AT 16:00 CST ON JUN 28	264 ON JUN 26	84.1B ON APR 4	5 670 000	1972
1973	203 AT 15:45 CST ON JUN 12	202 ON JUN 13	106 B ON APR 23	4 570 000	1973
1974	---	---	---	---	1974
1975	246 AT 14:17 CST ON JUL 12	243 ON JUL 10	101 B ON APR 6	5 100 000	1975
1976	257 AT 19:25 CST ON JUN 28	255 ON JUN 27	124 B ON FEB 27	5 680 000	1976
1977	388 AT 16:23 CST ON JUL 22 *	385 ON JUL 21 *	139 B ON MAR 8	7 570 000	1977
1978	306 AT 13:30 CST ON AUG 24	303 ON AUG 23	112 B ON MAR 29	6 470 000	1978
1979	215 AT 19:20 CST ON MAY 22	215 ON MAY 22	110 B ON APR 10	4 870 000	1979
1980	254 AT 10:01 CST ON SEP 1	253 ON AUG 31	102 B ON MAR 21	5 080 000	1980
1981	212 AT 12:00 CST ON JUN 16	212 ON JUN 17	92.1B ON DEC 31	4 510 000	1981
1982	222 AT 19:25 CST ON JUN 15	222 ON JUN 15	78.0B ON APR 18 *	4 260 000	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 380 000	MEAN

CONJURING CREEK NEAR RUSSELL - STATION NO. 05ME005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.049	0.051	0.002	0.084	0.016	0	0	0	---	---	0.025	1959
1960	---	---	0	1.06	0.170	0.107	0	0	0	0	---	---	0.164	1960
1961	---	---	0.002	0.001	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.361	0.069	0	0	0	0	0	---	---	0.053	1962
1963	---	---	0.193	0.057	0	0	0	0	0	0	---	---	0.031	1963
1964	---	---	0	0.298	0.090	0	0	0	0	0	---	---	0.048	1964
1965	---	---	0	0.558	0.100	0.015	0	0	0.035	0.036	---	---	0.092	1965
1966	---	---	0.035	0.939	0.225	0.008	0.001	0	0	0	---	---	0.149	1966
1967	---	---	0	0.409	0.251	0.002	0	0	0	0	---	---	0.082	1967
1968	---	---	0.184	0.293	0.008	0	0	0	0	0	---	---	0.060	1968
1969	---	---	0	0.690	0.009	0	0.005	0	0	0	---	---	0.086	1969
1970	---	---	0	0.493	0.385	0.009	0	0	0	0	---	---	0.110	1970
1971	---	---	0	0.460	0.038	0.178	0.146	0.013	0	0.010	---	---	0.104	1971
1972	---	---	0	1.19	0.204	0	0	0	0	0	---	---	0.172	1972
1973	---	---	0.055	0.005	0	0.026	0	0.006	0.165	0.160	---	---	0.052	1973
1974	---	---	0	1.91	0.639	0.096	0	0	0	0	---	---	0.326	1974
1975	---	---	0	0.795	0.222	0.039	0	0	0.036	0.016	---	---	0.137	1975
1976	---	---	0.001	1.45	0.063	0.235	0.099	0.153	0.128	0	---	---	0.262	1976
1977	---	---	0	0.273	0.112	0.012	0.022	0.070	0.021	0.018	---	---	0.065	1977
1978	---	---	0.005	0.726	0.113	0.002	0	0.039	0.005	0.005	---	---	0.110	1978
1979	---	---	0	1.39	0.841	0.039	0	0	0	0	---	---	0.282	1979
1980	---	---	0	0.175	0.001	0	0	0	0	0	---	---	0.022	1980
1981	---	---	0.130	0.139	0	0	0.001	0.001	0	0	---	---	0.034	1981
1982	---	---	0.003	0.296	0.003	0	0	0	0	0	---	---	0.037	1982
MEAN	---	---	0.027	0.584	0.148	0.036	0.012	0.012	0.016	0.010	---	---	0.104	MEAN

LOCATION - LAT 50 47 30 N DRAINAGE AREA, 88.1 km^2
LONG 101 17 55 W NATURAL FLOW

CONJURING CREEK NEAR RUSSELL - STATION NO. 05ME005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.651 ON MAR 30	0B ON MAR 1 *	526	1959
1960	---	5.47 ON APR 13	0B ON MAR 1	3 470	1960
1961	---	0.006B ON MAR 21	0B ON MAR 1	8.29	1961
1962	---	3.79 B ON APR 20	0B ON MAR 1	1 120	1962
1963	---	1.09 B ON MAR 24	0B ON MAR 1	664	1963
1964	---	1.61 B ON APR 16	0B ON MAR 1	1 010	1964
1965	---	4.19 ON APR 14	0B ON MAR 1	1 950	1965
1966	---	3.34 ON APR 3	0B ON MAR 1	3 150	1966
1967	---	2.81 B ON APR 23	0B ON MAR 1	1 740	1967
1968	---	0.906B ON MAR 26	0B ON MAR 1	1 270	1968
1969	---	4.11 ON APR 11	0B ON MAR 1	1 830	1969
1970	---	1.40 ON APR 30	0B ON MAR 1	2 330	1970
1971	---	1.84 B ON APR 9	0B ON MAR 1	2 210	1971
1972	---	4.19 ON APR 21	0B ON MAR 1	3 640	1972
1973	---	1.00 ON OCT 5	0B ON MAR 1	1 100	1973
1974	15.9 B AT 22:18 CST ON APR 18 *	12.5 ON APR 19 *	0B ON MAR 1	6 910	1974
1975	5.78 B AT 09:11 CST ON APR 21	4.36 B ON APR 21	0B ON MAR 1	2 890	1975
1976	---	5.18 B ON APR 7	0B ON MAR 1	5 560	1976
1977	---	1.11 B ON APR 7	0B ON MAR 1	1 390	1977
1978	---	1.94 ON APR 18	0B ON MAR 1	2 330	1978
1979	8.86 B AT 13:45 CST ON APR 22	7.30 B ON APR 22	0B ON MAR 1	5 960	1979
1980	---	1.02 B ON APR 9	0B ON MAR 1	458	1980
1981	0.862 AT 05:39 CST ON MAR 31	0.860 ON MAR 31	0B ON MAR 1	714	1981
1982	1.28 AT 07:51 CST ON APR 16	0.974 ON APR 16	0B ON MAR 1	783	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 210	MEAN

COOKS CREEK AT COOKS CREEK - STATION NO. 05OJ006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	20.2	1.79	0.154	0.039	0.157	0.037	0.033	---	---	2.75	1960
1961	---	---	0.671	1.90	0.065	0.019	0.007	0	0	0	---	---	0.329	1961
1962	---	---	0	2.75	1.57	1.42	1.45	0.325	0.005	0.003	---	---	0.936	1962
1963	---	---	0.754	4.22	0.784	3.49	0.699	0.050	0.004	0.023	---	---	1.24	1963
1964	---	---	0.011	4.14	2.35	0.592	0.022	0	0.050	0	---	---	0.888	1964
1965	---	---	0	6.20	1.21	1.02	0.707	0.060	0.103	0.121	---	---	1.26	1965
1966	---	---	0	15.9	5.50	1.20	8.43	0.093	0.454	0.066	---	---	3.94	1966
1967	---	---	0.039	15.8	2.31	0.087	0.017	0.016	0.010	0	---	---	2.24	1967
1968	---	---	0.386	1.24	0.546	0.199	0.295	2.80	1.28	0.754	---	---	0.937	1968
1969	---	---	0	7.94	1.46	1.37	0.258	0.074	0.088	0.130	---	---	1.39	1969
1970	---	---	0	10.0	3.97	3.23	0.103	0.017	0.956	0.056	---	---	2.26	1970
1971	---	---	0	11.8	0.656	0.080	0.032	0.008	0	0.035	---	---	1.54	1971
1972	---	---	0.008	6.15	0.473	0.116	0.001	0.004	0.053	0.076	---	---	0.845	1972
1973	---	---	2.23	0.238	0.068	1.41	0.558	0.003	0.115	0.627	---	---	0.658	1973
1974	---	---	0	23.2	15.6	1.43	0.030	0	0.016	0.131	---	---	5.00	1974
1975	---	---	0	2.69	0.225	3.18	0.334	0	0	0.001	---	---	0.789	1975
1976	---	---	0	6.04	0.078	1.12	0.060	0.014	0.003	0	---	---	0.897	1976
1977	---	---	0.012	0.475	0.081	0.105	0.206	0.093	2.24	0.414	---	---	0.448	1977
1978	---	---	0	14.3	1.29	0.258	0.032	0.030	0	0	---	---	1.96	1978
1979	---	---	0	14.2	6.64	2.46	0.016	0	0	0	---	---	2.88	1979
1980	---	---	0	4.98	0.065	0.003	0	0	0	0	---	---	0.619	1980
1981	---	---	0.568	0.167	0	0	0	0	0	0	---	---	0.092	1981
1982	---	---	0.374	3.14	0.067	0.253	0.134	0.010	0	0.151	---	---	0.509	1982
MEAN	---	---	0.220	7.72	2.04	1.04	0.584	0.164	0.236	0.114	---	---	1.50	MEAN

LOCATION - LAT 50 01 12 N DRAINAGE AREA, 513 km²
LONG 96 46 23 W NATURAL FLOW

COOKS CREEK AT COOKS CREEK - STATION NO. 05OJ006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	91.5 ON APR 13 *	0B ON MAR 1 *	58 100	1960
1961	---	5.38 ON APR 10	0B ON MAR 1	6 960	1961
1962	---	17.8 ON APR 22	0B ON MAR 1	19 800	1962
1963	---	32.3 ON JUN 5	0 ON SEP 16	26 100	1963
1964	---	16.2 ON APR 17	0 ON JUL 21	18 800	1964
1965	---	36.0 B ON APR 13	0B ON MAR 1	26 700	1965
1966	---	42.8 ON JUL 4	0B ON MAR 1	83 400	1966
1967	---	42.5 ON APR 21	0B ON MAR 1	47 500	1967
1968	---	22.9 ON AUG 25	0 ON MAR 1	19 800	1968
1969	---	32.6 B ON APR 10	0B ON MAR 1	29 500	1969
1970	---	33.7 ON APR 17	0B ON MAR 1	47 800	1970
1971	51.8 AT 03:02 CST ON APR 10	47.3 ON APR 10	0B ON MAR 1	32 700	1971
1972	26.3 B AT 09:43 CST ON APR 15	25.3 B ON APR 15	0 ON JUL 5	17 900	1972
1973	18.2 AT 03:22 CST ON JUN 21	12.7 ON JUN 21	0B ON MAR 1	13 900	1973
1974	78.2 B AT 12:19 CST ON APR 18 *	74.5 B ON APR 18	0B ON MAR 1	106 000	1974
1975	45.6 AT 15:44 CST ON JUN 23	35.1 ON JUN 23	0B ON MAR 1	16 700	1975
1976	---	28.2 B ON APR 6	0B ON MAR 1	19 000	1976
1977	11.0 AT 16:12 CST ON SEP 10	9.03 ON SEP 10	0B ON MAR 1	9 470	1977
1978	---	28.9 B ON APR 12	0B ON MAR 1	41 400	1978
1979	74.5 B AT 03:39 CST ON APR 20	73.6 B ON APR 20	0B ON MAR 1	61 000	1979
1980	25.0 B AT 07:42 CST ON APR 8	22.3 B ON APR 8	0B ON MAR 1	13 100	1980
1981	4.67B AT 00:30 CST ON MAR 27	2.28B ON MAR 27	0B ON MAR 1	1 950	1981
1982	13.6 AT 09:31 CST ON APR 14	12.3 B ON APR 16	0B ON MAR 1	10 800	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		31 700	MEAN

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	5.08	12.6	1.34	0.575	0.316	0.021	0	0	---	---	2.47	1957
1958	---	---	0.073	0.132	0.031	0.004	2.32	0.087	0	0	---	---	0.329	1958
1959	---	---	0.086	9.88	4.61	4.85	0.325	2.40	2.70	14.8	---	---	4.94	1959
1960	---	---	0	29.3	2.03	0.544	0.007	0.175	0.009	0	---	---	3.94	1960
1961	---	---	1.04	2.91	0.322	0.123	0	0	0	0	---	---	0.543	1961
1962	---	---	0	6.12	1.92	1.64	1.66	0.738	0.017	0	---	---	1.50	1962
1963	---	---	0.837	5.36	0.890	3.56	0.610	0.042	0	0	---	---	1.39	1963
1964	---	---	0	6.28	2.81	0.934	0.053	0	0.006	0	---	---	1.25	1964
1965	---	---	0	7.70	1.27	1.26	0.585	0.082	0.051	0.087	---	---	1.36	1965
1966	---	---	0	25.6	7.33	0.988	6.14	0.032	0.525	0.030	---	---	5.04	1966
1967	---	---	0.027	22.1	2.30	0.111	0.020	0	0	0	---	---	3.02	1967
1968	---	---	0.805	2.16	0.572	0.208	0.390	3.01	1.48	0.640	---	---	1.16	1968
1969	---	---	0	10.3	1.58	1.92	0.407	0.029	0.050	0.273	---	---	1.79	1969
1970	---	---	0	12.6	4.82	4.34	0.387	0	0.441	0.152	---	---	2.81	1970
1971	---	---	0	19.5	0.745	0.149	0.041	0	0	0	---	---	2.50	1971
1972	---	---	0	9.80	0.439	0.008	0	0.070	0.003	0.013	---	---	1.27	1972
1973	---	---	3.02	0.242	0.007	2.75	0.386	0	0.186	0.926	---	---	0.938	1973
1974	---	---	0	31.3	20.9	1.77	0.026	0.001	0.001	0.001	---	---	6.70	1974
1975	---	---	0	5.05	0.184	1.92	0.137	0.006	0.005	0.003	---	---	0.896	1975
1976	---	---	0	9.27	0.072	2.75	0.093	0	0	0	---	---	1.49	1976
1977	---	---	0.001	0.548	0.014	0	0.127	0	2.25	0.493	---	---	0.423	1977
1978	---	---	0.017	16.8	1.72	0.402	0.268	0.005	0.002	0.001	---	---	2.36	1978
1979	---	---	0	18.4	4.79	3.01	0.005	0	0.032	0	---	---	3.23	1979
1980	---	---	0	8.00	0	0.004	0	0	0	0	---	---	0.980	1980
1981	---	---	0.428	0.046	0.015	0	0.002	0	0	0.016	---	---	0.064	1981
1982	---	---	0.644	6.80	0.037	0.333	0.209	0	0	0.243	---	---	1.02	1982
MEAN	---	---	0.461	10.7	2.34	1.31	0.558	0.256	0.298	0.680	---	---	2.05	MEAN

LOCATION - LAT 50 08 25 N DRAINAGE AREA, 697 km^2
LONG 96 49 48 W NATURAL FLOW

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	63.7 ON APR 25	0B ON MAR 1 *	52 200	1957
1958	---	32.6 E ON JUL 6	0B ON MAR 1	6 960	1958
1959	---	47.9 ON OCT 11	0B ON MAR 1	105 000	1959
1960	227 AT 09:30 ON APR 14 *	201 ON APR 14 *	0B ON MAR 1	83 300	1960
1961	---	9.54B ON MAR 27	0B ON MAR 1	11 500	1961
1962	---	46.7 ON APR 21	0B ON MAR 1	31 800	1962
1963	---	36.8 ON APR 9	0B ON MAR 1	29 500	1963
1964	---	26.2 ON APR 17	0B ON MAR 1	26 400	1964
1965	---	35.4 B ON APR 13	0B ON MAR 1	28 800	1965
1966	---	59.2 ON APR 14	0B ON MAR 1	106 000	1966
1967	---	52.1 ON APR 15	0B ON MAR 1	63 900	1967
1968	---	19.2 ON AUG 26	0B ON MAR 1	24 500	1968
1969	---	56.6 ON APR 10	0B ON MAR 1	37 900	1969
1970	---	43.0 ON APR 17	0B ON MAR 1	59 500	1970
1971	---	62.9 B ON APR 11	0B ON MAR 1	53 000	1971
1972	---	45.3 B ON APR 15	0 ON MAR 1	26 800	1972
1973	27.8 AT 19:38 CST ON JUN 21	22.7 ON JUN 21	0B ON MAR 1	19 800	1973
1974	112 B AT 17:16 CST ON APR 18	106 B ON APR 18	0B ON MAR 1	142 000	1974
1975	32.8 AT 06:00 CST ON JUN 24	28.1 ON JUN 24	0B ON MAR 1	19 000	1975
1976	---	45.0 B ON APR 6	0B ON MAR 1	31 600	1976
1977	9.20 AT 10:46 CST ON SEP 11	8.64 ON SEP 11	0B ON MAR 1	8 960	1977
1978	39.9 AT 22:30 CST ON APR 11	37.1 ON APR 12	0B ON MAR 1	50 000	1978
1979	106 A AT 20:00 CST ON APR 20	99.4 ON APR 21	0B ON MAR 1	68 300	1979
1980	45.6 AT 22:00 CST ON APR 8	43.0 ON APR 8	0B ON MAR 1	20 700	1980
1981	4.94 AT 10:03 CST ON MAR 29	1.29 ON MAR 20	0B ON MAR 1	1 360	1981
1982	25.2 AT 01:26 CST ON APR 15	23.0 ON APR 15	0B ON MAR 1	21 500	1982
MEAN				43 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

COOKS CREEK NEAR GLASS - STATION NO. 05OJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	6.17	1.25	0.469	0.007	0.038	0.004	0.004	---	---	0.977	1960
1961	---	---	0.154	0.320	0.010	0.055	0	0	0.001	0.003	---	---	0.067	1961
1962	---	---	0	0.309	0.721	0.646	0.710	0.083	0.005	0.002	---	---	0.309	1962
1963	---	---	0.220	0.652	0.152	1.52	0.728	0.065	0.002	0.004	---	---	0.414	1963
1964	---	---	0	0.977	1.76	0.422	0.008	0	0.001	0.001	---	---	0.395	1964
1965	---	---	0	1.58	0.735	0.744	0.609	0.066	0.075	0.103	---	---	0.486	1965
1966	---	---	0	4.82	2.67	0.980	4.10	0.183	0.298	0.103	---	---	1.64	1966
1967	---	---	0.005	6.39	1.85	0.100	0.001	0	0	0	---	---	1.03	1967
1968	---	---	0.241	0.512	0.211	0.146	0.090	0.750	0.586	0.215	---	---	0.343	1968
1969	---	---	0	2.92	1.03	0.536	0.139	0.043	0.009	0.101	---	---	0.600	1969
1970	---	---	0	3.14	2.09	1.38	0.110	0.003	0.025	0.030	---	---	0.839	1970
1971	---	---	0	2.17	0.237	0.039	0.015	0.004	0.007	0.040	---	---	0.308	1971
1972	---	---	0	2.30	0.292	0.021	0.002	0.006	0.023	0.005	---	---	0.326	1972
1973	---	---	0.654	0.083	0.033	0.197	0.136	0.003	0.094	0.334	---	---	0.193	1973
1974	---	---	0	6.89	7.36	1.16	0.076	0.055	0.043	0.021	---	---	1.94	1974
1975	---	---	0	0.615	0.051	0.963	0.542	0.001	0.001	0.003	---	---	0.269	1975
1976	---	---	0	1.48	0.059	0.215	0.015	0.001	0	0.001	---	---	0.217	1976
1977	---	---	0	0.163	0.016	0.047	0.086	0.028	0.496	0.235	---	---	0.132	1977
1978	---	---	0.020	5.33	0.817	0.200	0.035	0.002	0.003	0.001	---	---	0.788	1978
1979	---	---	0	3.61	1.02	0.997	0.034	0.008	0.006	0.006	---	---	0.700	1979
1980	---	---	0	1.04	0.013	0.001	0.001	0.001	0.004	0.004	---	---	0.130	1980
1981	---	---	0.019	0.017	0.022	0.010	0.008	0	0.003	0.008	---	---	0.011	1981
1982	---	---	0.146	1.18	0.127	0.364	0.149	0.016	0.001	0.108	---	---	0.259	1982
MEAN	---	---	0.063	2.29	0.979	0.486	0.330	0.059	0.077	0.058	---	---	0.538	MEAN

LOCATION - LAT 49 53 10 N   DRAINAGE AREA, 183 km²
LONG 96 44 26 W   NATURAL FLOW

COOKS CREEK NEAR GLASS - STATION NO. 05OJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	22.0 ON APR 12	0B ON MAR 1 *	20 700	1960
1961	---	1.14 B ON MAR 26	0B ON MAR 1	1 420	1961
1962	---	5.66 ON JUL 20	0B ON MAR 1	6 540	1962
1963	---	13.5 ON JUN 4	0 ON MAR 1	8 770	1963
1964	---	9.17 ON MAY 6	0B ON MAR 1	8 360	1964
1965	---	7.87 B ON APR 14	0B ON MAR 1	10 300	1965
1966	---	16.5 ON JUL 3	0B ON MAR 1	34 600	1966
1967	---	12.2 B ON APR 11	0B ON MAR 1	21 800	1967
1968	---	5.24 ON AUG 24	0B ON MAR 1	7 270	1968
1969	---	14.3 ON APR 9	0 ON MAR 1	12 700	1969
1970	16.1 AT 20:21 CST ON APR 16	13.8 ON APR 16	0A ON MAR 1	17 800	1970
1971	---	10.2 ON APR 10	0B ON MAR 1	6 530	1971
1972	---	8.07 B ON APR 15	0B ON MAR 1	6 900	1972
1973	5.30 AT 20:57 CST ON JUN 20	2.31 ON OCT 13	0B ON MAR 1	4 080	1973
1974	28.9 AT 15:18 CST ON MAY 22 *	28.1 ON MAY 22 *	0B ON MAR 1	41 100	1974
1975	14.5 AT 01:23 CST ON JUN 23	10.6 ON JUN 21	0B ON MAR 1	5 680	1975
1976	---	8.10 ON APR 6	0B ON MAR 1	4 590	1976
1977	4.16 AT 20:51 CST ON SEP 9	2.30 ON SEP 10	0B ON MAR 1	2 810	1977
1978	---	8.86 ON APR 11	0B ON MAR 1	16 700	1978
1979	---	10.7 ON APR 20	0B ON MAR 1	14 800	1979
1980	---	6.46 B ON APR 8	0B ON MAR 1	2 750	1980
1981	0.200 AT 09:00 CST ON MAY 25	0.178 ON MAY 25	0B ON MAR 1	230	1981
1982	5.30 AT 18:57 CST ON APR 14	4.03 B ON APR 13	0B ON MAR 1	5 480	1982
				11 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05OB006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.288	0.026	0.028	0.034	0	0.016	0.001	0.001	---	---	0.050	1959
1960	---	---	0	2.45	0.000	0.003	0	0	0	0	---	---	0.302	1960
1961	---	---	0.612	0.439	0.010	0.001	0	0	0	0	---	---	0.133	1961
1962	---	---	0	1.59	0.019	0.013	0.001	0.024	0	0	---	---	0.202	1962
1964	---	---	0.037	0.200R	0.009	0.005	0	0	0	0	---	---	0.031R	1964
1965	---	---	0	0.186	0.158	0	0	0	0	0	---	---	0.043	1965
1966	---	---	1.05	0.226	0.038	0	0	0	0	0	---	---	0.166	1966
1967	---	---	0.080	0.418	0.032	0	0	0	0	0	---	---	0.060	1967
1968	---	---	0.158	0.045	0	0	0.052	0.743R	0.126	0	---	---	0.142R	1968
1969	---	---	0	2.67	0.022	0.021	0.033	0	0	0	---	---	0.336	1969
1970	---	---	0	2.05	0.127	0.423	0.003	0	0.011	0	---	---	0.320	1970
1971	---	---	0	1.73	0.147	0	0	0	0	0	---	---	0.230	1971
1972	---	---	1.39	1.27	0.013	0	0	0	0	0	---	---	0.333	1972
1973	---	---	0.006	0.001	0	0	0	0	0	0	---	---	0.001	1973
1974	---	---	0	3.45	1.36	0.130	0.002	0	0	0	---	---	0.611	1974
1975	---	---	0	0.583	0.087	0.010	0.001	0	0	0	---	---	0.084	1975
1976	---	---	0	2.61	0.087	0.001	0	0	0	0	---	---	0.325	1976
1977	---	---	0.003	0.005	0.024	0	0	0	0.001	0	---	---	0.004	1977
1978	---	---	0.039	1.17	0.147	0.021	0.022	0	0	0	---	---	0.172	1978
1979	---	---	0	2.30	0.606	0.074	0.001	0	0	0	---	---	0.367	1979
1980	---	---	0.003	0.167	0	0	0	0	0	0	---	---	0.021	1980
1981	---	0.018	0.237	0.005	0.112	0.010	0.001	0.002	0.001	0.001	---	---	0.047	1981
1982	---	---	0.274	0.837	0.013	0.700	0.037	0.001	0	0.004	---	---	0.230	1982
MEAN	---	0.018	0.180	1.06 R	0.131	0.063	0.007	0.034R	0.006	0	---	---	0.183	MEAN

LOCATION - LAT 49 07 28 N   DRAINAGE AREA, 153 km²
LONG 98 56 28 W   NATURAL FLOW

R - REVISED SINCE JAN 1980

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05OB006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.72 B ON MAR 29	0B ON MAR 1 *	1 050	1959
1960	---	12.4 ON APR 11	0B ON MAR 1	6 390	1960
1961	---	2.32 ON MAR 27	0 ON MAR 1	2 810	1961
1962	26.7 AT 17:30 CST ON APR 17 *	18.2 ON APR 17	0B ON MAR 1	4 270	1962
1964	---	0.940R ON APR 5	0B ON MAR 1	653 R	1964
1965	---	3.43 ON MAY 5	0B ON MAR 1	905	1965
1966	---	4.70 ON MAR 30	0B ON MAR 1	3 510	1966
1967	---	1.06 ON APR 24	0B ON MAR 1	1 270	1967
1968	---	8.61 R ON AUG 24	0B ON MAR 1	3 000 R	1968
1969	---	19.7 ON APR 11	0B ON MAR 1	7 120	1969
1970	---	8.35 ON APR 25	0B ON MAR 1	6 790	1970
1971	---	6.46 B ON APR 12	0B ON MAR 1	4 870	1971
1972	---	3.77 B ON MAR 21	0B ON MAR 1	7 050	1972
1973	---	0.014B ON MAR 16	0B ON MAR 1	18.7	1973
1974	---	22.0 B ON APR 17 *	0B ON MAR 1	12 900	1974
1975	---	4.13 B ON APR 13	0B ON MAR 1	1 770	1975
1976	---	17.2 B ON APR 6	0B ON MAR 1	6 890	1976
1977	0.433 AT 11:29 CST ON MAY 20	0.368 ON MAY 20	0B ON MAR 1	90.3	1977
1978	9.49 AT 02:29 CST ON APR 6	7.22 ON APR 6	0B ON MAR 1	3 630	1978
1979	---	16.2 B ON APR 20	0B ON MAR 1	7 770	1979
1980	1.56 B AT 15:18 CST ON APR 4	1.23 B ON APR 6	0B ON MAR 1	441	1980
1981	6.77 AT 03:52 CST ON MAY 23	1.77 ON MAY 23	0 ON MAY 1	990	1981
1982	---	4.83 B ON MAR 31	0B ON MAR 1	4 860	1982
				3 870 R	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 05OB010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.283	0.246	0.008	0.010	0.006	0.007	0.065	0	---	---	0.078	1959
1960	---	---	0	5.96	0.098	0.010	0	0	0	0	---	---	0.743	1960
1961	---	---	0.150R	0.263R	0.001	0	0	0	0	0	---	---	0.051R	1961
1962	---	---	0	2.87	0.018	0.067	0.353	0.251	0	0	---	---	0.439	1962
1963	---	---	0.240	0.148	0.015	2.18	0.501	0.718	0	0	---	---	0.471	1963
1964	---	---	0	1.85	0.012	0.080	0.084	0.012	0.009	0.031	---	---	0.255	1964
1965	---	---	0	0.940	0.715	0.190	1.14	0.153	0.026	0	---	---	0.395	1965
1966	---	---	1.18	0.964	0.465	0.030	0	0	0	0	---	---	0.331	1966
1967	---	---	0.052	2.69	0.328	0.009	0	0	0	0	---	---	0.378	1967
1968	---	---	0.214	0.091	0.008	0.002	0.015	0.537	0.513	0	---	---	0.172	1968
1969	---	---	0	4.07	0.013	0.115	0.322	0	0	0	---	---	0.555	1969
1970	---	---	0	3.53	1.90	3.71	0.631	0.023	0	0	---	---	1.21	1970
1971	---	---	0	10.9	0.275	0.247	0	0	0	0	---	---	1.40	1971
1972	---	---	3.42	3.03	0.070	0.013	0.006	0.007	0	0	---	---	0.816	1972
1973	---	---	0.046	0.020	0.006	0.001	0	0	0	0	---	---	0.009	1973
1974	---	---	0	10.5	2.40	0.166	0.089	0.002	0.001	0.002	---	---	1.62	1974
1975	---	---	0	2.29	0.509	0.204	0.022	0	0.001	0.001	---	---	0.373	1975
1976	---	---	0	7.74	0.036	0.002	0	0	0	0	---	---	0.952	1976
1977	---	---	0.001	0.005	0.106	0.006	0	0	0	0	---	---	0.015	1977
1978	---	---	0.003	2.28	0.308	0.046	0.010	0	0	0	---	---	0.326	1978
1979	---	---	0	7.05	1.38	0.041	0.002	0	0	0	---	---	1.04	1979
1980	---	---	0.011	0.242	0.002	0.002	0.001	0	0	0.001	---	---	0.032	1980
1981	---	0.356	0.556	0.035	0.007	0.003	0	0.055	0.004	0.002	---	---	0.083	1981
1982	---	---	0.154	3.85	0.094	7.58	0.037	0.001	0	0.007	---	---	1.44	1982
MEAN	---	0.356	0.263R	2.98 R	0.366	0.613	0.131	0.074	0.026	0.002	---	---	0.549	MEAN

LOCATION - LAT 49 05 21 N DRAINAGE AREA, 389 km²
LONG 98 58 54 W NATURAL FLOW

R - REVISED SINCE JAN 1980

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1976. THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OCCURRED IN FEB

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 05OB010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.86 B ON MAR 31	0B ON MAR 1 *	1 640	1959
1960	---	25.5 E ON APR 8	0B ON MAR 1	15 700	1960
1961	---	1.12 B ON MAR 27	0B ON MAR 1	1 080R	1961
1962	---	10.9 ON APR 17	0B ON MAR 1	9 280	1962
1963	---	12.4 ON JUN 10	0B ON MAR 1	9 970	1963
1964	---	9.32 B ON APR 10	0B ON MAR 1	5 390	1964
1965	---	10.4 ON MAY 5	0B ON MAR 1	8 370	1965
1966	---	6.12 B ON MAR 31	0B ON MAR 1	7 000	1966
1967	---	12.4 ON APR 21	0B ON MAR 1	8 010	1967
1968	---	6.09 ON AUG 24	0B ON MAR 1	3 640	1968
1969	---	16.2 ON APR 15	0B ON MAR 1	11 800	1969
1970	---	16.3 ON JUN 12	0B ON MAR 1	25 600	1970
1971	---	72.5 B ON APR 11 *	0B ON MAR 1	29 700	1971
1972	---	7.99 B ON MAR 21	0B ON MAR 1	17 300	1972
1973	---	0.161 ON MAR 23	0B ON MAR 1	192	1973
1974	---	68.8 ON APR 18	0B ON MAR 1	34 200	1974
1975	---	11.4 ON APR 15	0B ON MAR 1	7 890	1975
1976	---	53.0 B ON APR 5	0B ON MAR 1	20 200	1976
1977	---	0.668 ON MAY 25	0B ON MAR 1	314	1977
1978	---	11.9 B ON APR 7	0B ON MAR 1	6 900	1978
1979	---	36.8 B ON APR 22	0B ON MAR 1	22 100	1979
1980	---	0.973B ON APR 7	0B ON MAR 1	672	1980
1981	---	2.37 B ON MAR 14	0 ON JUN 29	1 770	1981
1982	---	56.4 ON JUN 6	0B ON MAR 1	30 500	1982
MEAN				11 600R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1980

CYPRESS CREEK NEAR SARLES - STATION NO. 05OB031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	0	0	0	0	0	0	0	---	1961
1962	0	0	0	1.21	0.031	0.043	0.428	0.003	0	0	0	0	0.143	1962
1963	0	0	0.030	0.023	0.001	1.33	0.725	0.467	0.001	0	0	0	0.215	1963
1964	0	0	0	0.673	0.008	0.045	0.002	0	0	0	0	0	0.060	1964
1965	0	0	0	0.540	0.063	0.025	0.861	0.106	0.016	0.008	0	0	0.136	1965
1966	0	0	0.853	0.345	0.240	0.001	0	0	0	0	0	0	0.121	1966
1967	0	0	0.367	1.28	0.222	0	0	0	0	0	0	0	0.155	1967
1968	0	0	0.103	0.014	0	0	0	0.225	0.337	0.011	0.001	0	0.057	1968
1969	0	0	0	4.33	0.019	0.002	0.005	0	0	0	0	0	0.358	1969
1970	0	0	0	2.39	0.336	3.32	0.016	0	0	0	0	0	0.499	1970
1971	0	0	0	3.39	0.013	0	0.025	0	0	0	0	0	0.282	1971
1972	0	0	1.17	0.459	0.011	0	0	0	0	0	0	0	0.138	1972
1973	0	0	0.072	0.001	0	0	0	0	0	0	0	0	0.006	1973
1974	0	0	0	4.83	1.21	0.025	0	0	0	0	0	0	0.502	1974
1975	0	0	0	0.967	0.113	0.298	0.045	0	0	0	0	0	0.117	1975
1976	0	0	0	2.49	0.006	0	0	0.001	0	0	0	0	0.205	1976
1977	0	0	0	0.002	0.239	0.005	0	0	0	0	0	0	0.021	1977
1978	0	0	0	1.30	0.134	0.910	0.010	0	0	0	0	0	0.120	1978
1979	0	0	0	3.01	0.337	0.012	0	0	0	0	0	0	0.277	1979
1980	0	0	0	0.241	0.001	0.005	0.004	0.001	0	0	0	0	0.021	1980
1981	0	0.133	0.133	0.018	0.014	0	0	0	0	0	0	0	0.024	1981
1982	0	0	0.141	1.19	0.020	1.53	0.003	0.001	0	0.064	0.005	0.010	0.244	1982
MEAN	0	0.006	0.137	1.37	0.144	0.302	0.097	0.037	0.016	0.004	0	0	0.176	MEAN

LOCATION - LAT 48 56 35 N DRAINAGE AREA, 184 km²
LONG 98 57 05 W NATURAL FLOW

INTERNATIONAL GAUGING STATION

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1976

CYPRESS CREEK NEAR SARLES - STATION NO. 05OB031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	0 ON MAY 19 *	---	1961
1962	11.1 AT 04:30 CST ON JUL 8	7.93 ON JUL 8	0 ON JAN 1	4 500	1962
1963	16.2 AT 21:00 CST ON JUN 2	11.4 ON JUN 4	0 ON JAN 1	6 770	1963
1964	5.35 B ON APR 10	2.83 B ON APR 10	0 ON JAN 1	1 890	1964
1965	10.2 AT 19:00 CST ON JUL 22	6.77 ON JUL 23	0 ON JAN 1	4 290	1965
1966	19.0 B AT 16:30 CST ON MAR 17	7.08 B ON MAR 17	0B ON JAN 1	3 820	1966
1967	8.78 B AT 17:40 CST ON APR 21	7.36 B ON APR 21	0B ON JAN 1	4 890	1967
1968	2.78 AT 01:00 CST ON AUG 25	2.18 ON AUG 25	0 ON JAN 1	1 820	1968
1969	32.0 B AT 07:00 CST ON APR 12	31.1 B ON APR 12	0B ON JAN 1	11 300	1969
1970	49.3 AT 08:30 CST ON JUN 11	44.2 ON JUN 11 *	0 ON JAN 1	15 800	1970
1971	54.4 AT 00:00 CST ON APR 11	33.1 ON APR 11	0 ON JAN 1	8 890	1971
1972	6.94 B AT 13:00 CST ON MAR 19	6.26 B ON MAR 19	0B ON JAN 1	4 350	1972
1973	---	0.680 ON MAR 13	0 ON JAN 1	196	1973
1974	35.7 AT 22:00 CST ON APR 17	29.2 ON APR 18	0 ON JAN 1	15 800	1974
1975	11.0 AT 12:00 CST ON APR 13	5.66 ON APR 12	0 ON JAN 1	3 710	1975
1976	18.4 B AT 00:30 CST ON APR 4	17.6 B ON APR 5	0B ON JAN 1	6 480	1976
1977	1.42 AT 19:00 CST ON MAY 20	1.27 ON MAY 21	0B ON JAN 1	657	1977
1978	9.03 AT 08:00 CST ON APR 7	8.72 ON APR 7	0B ON JAN 1	3 770	1978
1979	56.6 B ON APR 21 *	22.7 B ON APR 21	0B ON JAN 1	8 730	1979
1980	2.41 AT 11:00 CST ON APR 5	1.70 ON APR 5	0B ON JAN 1	655	1980
1981	0.878B AT 04:30 CST ON FEB 24	0.680B ON FEB 27	0B ON JAN 1	766	1981
1982	---	21.7 ON JUN 6	0B ON JAN 1	7 700	1982
				5 560	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CYPRESS RIVER AT CYPRESS RIVER - STATION NO. 05MH002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	0.985	0.187	0.340	0.079	0.426	0.130	0.036	---	---	---	1957
1958	---	---	0.514	0.801	0.208	0.038	0.077	0.019	0.013	0.018	---	---	0.210	1958
1959	---	---	0.540	3.34	0.510	0.138	0.036	0.032	0.036	0.524	---	---	0.638	1959
1960	---	---	0.073	6.98	0.564	0.132	0.066	0	0	0	---	---	0.959	1960
MEAN	---	---	0.376	3.03	0.367	0.162	0.065	0.119	0.045	0.145	---	---	0.602	MEAN

LOCATION - LAT 49 33 00 N DRAINAGE AREA, 386 km²
LONG 99 04 30 W NATURAL FLOW

CYPRESS RIVER AT CYPRESS RIVER - STATION NO. 05MH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	3.06B ON MAR 30	0B ON MAR 1 *	4 450	1958
1959	---	14.4 B ON APR 5	0B ON MAR 1	13 500	1959
1960	---	17.7 ON APR 17 *	0B ON MAR 1	20 300	1960
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 800	MEAN

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.02	0.158	0.071	0.042	0.013	0.316	0.124	---	---	0.583	1965
1966	---	---	0.937	4.27	1.42	0.079	0.521	0.002	0	0	---	---	0.896	1966
1967	---	---	0.006	4.94	0.714	0.027	0.027	0	0	0	---	---	0.702	1967
1968	---	---	0.848	0.588	0.284	0.057	0.114	1.45	1.04	0.099	---	---	0.561	1968
1969	---	---	0	10.1	0.861	0.072	2.26	0.251	0.012	0.041	---	---	1.68	1969
1970	---	---	0	9.73	5.25	0.284	0.033	0	0	0	---	---	1.90	1970
1971	---	---	0	4.90	0.333	0.223	0.487	0.020	0.001	0.053	---	---	0.740	1971
1972	---	---	1.84	2.91	0.422	0.015	0	0.014	0	0	---	---	0.646	1972
1973	---	---	0.166	0.384	0.092	0.012	0.912	0.037	0.029	0.035	---	---	0.209	1973
1974	---	---	0	12.2	2.97	0.320	0.008	0	0	0	---	---	1.91	1974
1975	---	---	0	1.24	0.855	0.086	0.115	0	0	0.008	---	---	0.286	1975
1976	---	---	0.004	5.87	0.098	0.006	0	0	0	0	---	---	0.732	1976
1977	---	---	0	0.022	0.628	0.066	0	0	0.207	0.081	---	---	0.126	1977
1978	---	---	0.011	4.10	0.425	0.110	0.645	0.030	0	0	---	---	0.656	1978
1979	---	---	0	10.8	3.00	0.233	0.044	0	0	0	---	---	1.74	1979
1980	---	---	0	1.37	0.038	0	0	0.010	0.017	0.029	---	---	0.179	1980
1981	---	---	0.110	0.048	0.038	0.102	0.132	0.056	0.187	0.079	---	---	0.094	1981
1982	---	---	0.066	0.882	0.129	0.059	0.008	0	0	0.019	---	---	0.144	1982
MEAN	---	---	0.222	4.35	0.984	0.101	0.297	0.105	0.101	0.032	---	---	0.766	MEAN

LOCATION - LAT 49 26 46 N DRAINAGE AREA, 254 km^2
LONG 98 54 25 W NATURAL FLOW

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	25.7 ON APR 13	0 B ON MAR 1 *	12 300	1965
1966	---	35.7 ON APR 1	0 B ON MAR 1	19 000	1966
1967	---	16.0 ON APR 21	0 B ON MAR 1	14 900	1967
1968	---	10.8 ON AUG 27	0 B ON MAR 1	11 900	1968
1969	---	72.5 ON APR 12	0 B ON MAR 1	35 600	1969
1970	---	43.0 ON APR 26	0 B ON MAR 1	40 100	1970
1971	---	28.2 B ON APR 10	0 B ON MAR 1	15 700	1971
1972	---	8.95 B ON MAR 20	0 B ON MAR 1	13 700	1972
1973	---	11.1 ON JUL 5	0 B ON MAR 1	4 420	1973
1974	---	73.9 ON APR 19 *	0 B ON MAR 1	40 500	1974
1975	4.90 AT 18:09 CST ON MAY 25	3.96 ON APR 16	0 B ON MAR 1	6 060	1975
1976	39.6 B AT 12:23 CST ON APR 6 *	29.7 B ON APR 7	0 ON JUN 2	15 500	1976
1977	4.45 AT 04:27 CST ON MAY 21	3.20 ON MAY 21	0 B ON MAR 1	2 660	1977
1978	---	17.8 B ON APR 8	0 B ON MAR 1	13 900	1978
1979	---	64.2 B ON APR 21	0 B ON MAR 1	36 800	1979
1980	9.72 AT 20:11 CST ON APR 7	7.65 ON APR 8	0 B ON MAR 1	3 800	1980
1981	1.05 AT 23:12 CST ON SEP 7	0.938 ON SEP 7	0.001 ON SEP 3	1 980	1981
1982	2.68B AT 20:00 CST ON APR 15	2.25 B ON APR 15	0 B ON MAR 1	3 040	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		16 200	MEAN

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	2.84	2.86	0.708	0.030	0	0	0	0	---	---	0.802	1961
1962	---	---	0	5.94	0.666	1.22	0.116	3.01	0.585	0.036	---	---	1.43	1962
1963	---	---	1.41	1.31	0.217	0.604	0.053	[illegible]	0.001	0.026	---	---	0.454	1963
1964	---	---	0	2.36	0.499	0.199	0.051	0.008	0.006	0.015	---	---	0.387	1964
1975	---	---	0.001	2.18	1.53	0.242	0.133	0.010	0.023	0.019	---	---	0.513	1975
1976	---	---	0.007	11.6	0.437	0.123	0.026	0.012	0	0	---	---	1.50	1976
1977	---	---	0.028	0.117	0.861	0.128	0.115	0.076	0.066	0.108	---	---	0.296	1977
1978	---	---	0.255	5.86	0.546	0.205	1.19	0.107	0.012	0.013	---	---	1.01	1978
1979	---	---	0	13.5	4.89	0.557	0.104	0.008	0.009	0.015	---	---	2.35	1979
1980	---	---	0.002	1.59	0.106	0.006	0.004	0.059	0.009	0.024	---	---	0.221	1980
1981	---	---	0.306	0.136	0.067	0.002	0.191	0.117	0.195	0.100	---	---	0.149	1981
1982	---	---	0.174	1.49	0.283	0.161	0.272	0.010	0.001	0.033	---	---	0.301	1982
MEAN	---	---	0.419	4.08	0.901	0.296	0.188	0.207	0.142	0.039	---	---	0.784	MEAN

LOCATION - LAT 49 35 31 N DRAINAGE AREA, 572 km^2
LONG 99 02 00 W NATURAL FLOW

REMARKS - DAILY DISCHARGEJ FOR 1973 AND 1974 HAVE NOT BEEN PUBLISHED

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	22.1 B ON MAR 27	0 B ON MAR 1 *	17 000	1961
1962	---	28.9 ON APR 21	0 B ON MAR 1	30 300	1962
1963	---	5.04B ON MAR 27	0 B ON MAR 1	9 600	1963
1964	---	4.28B ON APR 13	0 B ON MAR 1	8 190	1964
1975	---	4.96 ON APR 29	0.001B ON MAR 1	10 900	1975
1976	---	56.1 ON APR 8	0 ON AUG 4	31 700	1976
1977	---	4.19 ON MAY 22	0.001B ON MAR 1	6 270	1977
1978	---	18.1 ON APR 9	0 B ON MAR 1	21 400	1978
1979	---	84.7 B ON APR 22 *	0 B ON MAR 1	49 800	1979
1980	---	5.95B ON APR 9	0 ON JUN 14	[illegible] 680	1980
1981	2.21 AT 00:45 CST ON AUG 24	1.13 ON AUG 24	0.001 ON AUG 22	3 160	1981
1982	5.23 AT 04:58 CST ON JUL 17 *	3.38 ON JUL 17	0 B ON MAR 1	6 360	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		16 600	MEAN

DAUPHIN RIVER NEAR ANAMA BAY - STATION NO. 05LM006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	4.09	1.48	2.11	30.3	29.6	26.7	115	112	52.5	56.3	70.0	66.9	47.7	1977
1978	71.0	74.2	94.9	129	109	69.2	64.4	39.4	30.2	26.1	22.2	12.3	61.7	1978
1979	12.7	18.4	22.9	72.1	255	313	312	272	200	151	135	84.0	155	1979
1980	82.0	112	129	144	107	53.2	30.6	27.9	46.6	63.2	62.4	42.6	74.9	1980
1981	36.7	38.2	44.5	54.3	40.5	28.2	15.6	15.0	15.5	19.5	22.0	19.4	29.0	1981
1982	5.51	0.659	3.06	36.9	58.7	34.3	25.2	15.0	12.3	14.2	16.2	7.71	19.2	1982
MEAN	35.3	40.8	49.4	77.8	100	87.4	93.8	80.2	59.5	55.1	54.6	38.8	64.6	MEAN

LOCATION - LAT 52 00 08 N DRAINAGE AREA, 81 600 km^2
LONG 98 19 20 W REGULATED SINCE 1976

DAUPHIN RIVER NEAR ANAMA BAY - STATION NO. 05LM006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	153 AT 04:07 CST ON AUG 4	151 ON AUG 4	1.02 B ON MAR 9	1 500 000	1977
1978	156 AT 03:00 CST ON APR 28 *	149 ON APR 25	10.0 B ON DEC 11	1 940 000	1978
1979	---	320 E ON JUN 12 *	11.3 B ON JAN 18	4 880 000	1979
1980	---	152 B ON APR 6	15.0 E ON AUG 16	2 370 000	1980
1981	---	57.3E ON APR 15	9.87 E ON SEP 22	915 000	1981
1982	88.1 AT 15:12 CST ON APR 24	84.2 ON APR 29	0.320B ON FEB 14 *	606 000	1982
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 040 000	MEAN

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	15.6	0.497	0	0	0	0	0	---	---	1.97	1974
1975	---	---	0	0.421	1.04	0.004	0	0	0.003	0.001	---	---	0.184	1975
1976	---	---	0	10.0	0.005	0	0	0	0	0	---	---	1.23	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.114	0	0	0	0	0	0	---	---	0.014	1978
1979	---	---	0	20.6	1.89	0.013	0	0	0	0	---	---	2.76	1979
1980	---	---	0	0.002	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.370	0	0	0	0	0	0	---	---	0.045	1982
MEAN	---	---	0	5.23	0.381	0.002	0	0	0	0	---	---	0.689	MEAN

LOCATION - LAT 50 10 59 N
LONG 98 56 58 W NATURAL FLOW

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	---	138 ON APR 18	0B ON MAR 1 *	41 800	1974
1975	---	12.8 ON MAY 1	0B ON MAR 1	3 090	1975
1976	---	55.2 B ON APR 7	0B ON MAR 1	26 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	---	1.25 B ON APR 11	0B ON MAR 1	296	1978
1979	---	161 B ON APR 23 *	0B ON MAR 1	58 400	1979
1980	---	0.010B ON APR 7	0B ON MAR 1	6.13	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	---	4.89 B ON APR 16	0B ON MAR 1	959	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 600	MEAN

DEADHORSE CREEK AT NORDEN - STATION NO. 05OC015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	1.40	1.83	1.25	0.041	0.055	0.005	0.003	0.003	---	---	0.572	1966
1967	---	---	0.334	1.90	0.482	0.060	0	0.001	0	0	---	---	0.353	1967
1968	---	---	0.215	0.063	0.065	0	0.001	1.14	0.373	0.029	---	---	0.236	1968
1969	---	---	0	4.05	0.074	0.949	0.437	0.007	0	0	---	---	0.678	1969
1970	---	---	0	5.40	0.866	0.242	0.200	0.033	0.009	0.006	---	---	0.831	1970
1971	---	---	0	4.45	0.060	0.133	0.014	0.011	0.007	0.020	---	---	0.575	1971
1978	---	---	0.004	0.981	0.317	0.207	0.015	0.006	0.052	0	---	---	0.190	1978
1979	---	---	0	4.27	1.12	0.214	0.118	0	0	0	---	---	0.705	1979
1980	---	---	0	0.131	0	0	0	0	0.003	0.006	---	---	0.027	1980
1981	---	0.001	0.003	0.004	0.112	0.020	0	0.109	0.001	0.017	---	---	0.034	1981
1982	---	---	0.041	0.333	0.035	0.169	0.044	0.001	0.078	0.025	---	---	0.090	1982
MEAN	---	0.001	0.102	2.13	0.398	0.185	0.080	0.119	0.055	0.010	---	---	0.390	MEAN

LOCATION - LAT 49 11 47 N DRAINAGE AREA, 136 km²
LONG 98 06 38 W REGULATED

DEADHORSE CREEK AT NORDEN - STATION NO. 05OC015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1966	---	14.2 B ON MAR 31	0B ON MAR 1 *	12 100	1966
1967	---	26.9 ON APR 20	0B ON MAR 1	7 460	1967
1968	---	14.0 ON AUG 25	0B ON MAR 1	5 000	1968
1969	---	41.3 B ON APR 9	0B ON MAR 1	14 300	1969
1970	---	41.9 ON APR 26 *	0B ON MAR 1	17 600	1970
1971	---	39.6 ON APR 11	0B ON MAR 1	12 100	1971
1978	---	3.51 ON APR 10	0B ON MAR 1	4 030	1978
1979	---	33.5 B ON APR 19	0B ON MAR 1	15 000	1979
1980	---	0.892B ON APR 7	0B ON MAR 1	570	1980
1981	0.890 AT 16:48 CST ON MAY 25	0.798 ON MAY 25	0B ON MAR 1	711	1981
1982	1.42 AT 00:55 CST ON SEP 28 *	1.18 ON SEP 28	0B ON MAR 1	1 900	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 250	MEAN

DEADHORSE CREEK NEAR NORDEN - STATION NO. 05OC023

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	0.826	1.10	0.202	0.007	0.019	0.00.	0	0.001	---	---	0.268	1972
1973	---	---	0.010	0.006	0.007	0.003	0.001	0	0	0.001	---	---	0.004	1973
1974	---	---	0	4.77	3.14	0.241	0.001	0	0	0	---	---	1.01	1974
1975	---	---	0	0.459	0.343	0.579	0.068	0.023	0.024	0.065	---	---	0.193	1975
1976	---	---	0.009	2.02	0.034	0.017	0.002	0	0	0	---	---	0.256	1976
MEAN	---	---	0.169	1.67	0.745	0.169	0.018	0.005	0.005	0.013	---	---	0.346	MEAN

LOCATION - LAT 49 13 00 N DRAINAGE AREA, 143 km²
LONG 98 05 30 W REGULATED

DEADHORSE CREEK NEAR NORDEN - STATION NO. 05OC023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	5.18 B ON MAR 19	0B ON MAR 1 *	5 670	1972
1973	---	0.057B ON MAR 13	0B ON MAR 1	74.2	1973
1974	---	37.4 ON MAY 21 *	0B ON MAR 1	21 400	1974
1975	1.94 AT 03:39 CST ON JUN 23	1.87 ON APR 29	0B ON MAR 1	4 090	1975
1976	22.5 B AT 08:00 CST ON APR 5 *	15.5 B ON APR 5	0B ON MAR 1	5 410	1976
				7 330	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEER RIVER NORTH OF BELCHER - STATION NO. 06FD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	0.600	0.552	0.506	0.480	22.4	19.8	16.7	39.4	38.0	9.04	1.97	1.75	12.7	1978
1979	1.46	1.07	0.808	0.712	27.4	58.9	22.1	11.0	13.2	19.6	7.04	2.53	13.9	1979
1980	0.893	0.605	0.506	14.5	---	---	19.8	---	25.5	18.6	5.65	2.19	---	1980
1981	1.23	0.851	0.671	0.519	56.3	29.8	19.5	12.2	10.8	28.3	9.67R	1.97R	14.4R	1981
1982	0.797	0.459	0.167	0.015	---	64.3	20.7	5.53	7.67	12.4	5.32	2.60	---	1982
MEAN	0.996	0.707	0.532	3.25	35.4	43.2	19.8	17.0	19.0	17.6	5.93R	2.21R	13.7	MEAN

LOCATION - LAT 58 00 54 N   DRAINAGE AREA, 1 880 km^2
LONG 94 11 44 W   NATURAL FLOW

R - REVISED SINCE JAN 1980

DEER RIVER NORTH OF BELCHER - STATION NO. 06FD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	81.6 AT 12:45 CST ON AUG 22 *	81.0 ON AUG 21	0.453B ON APR 8	399 000	1978
1979	---	129 B ON MAY 27	0.677B ON APR 12	437 000	1979
1980	---	---	0.467B ON APR 9	---	1980
1981	---	205 B ON MAY 23 *	0.391B ON MAY 11	456 000R	1981
1982	---	---	0.006B ON APR 11 *	---	1982
				431 000R	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

DEVILS CREEK NEAR LIBAU - STATION NO. 05OJ016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0.078	7.21	0.559	0.322	0.199	0.043	0.149	0.220	---	---	1.08	1971
1972	---	---	0.014	3.49	0.177	0.090	0.042	0.046	0.025	0.064	---	---	0.485	1972
1973	---	---	1.23	0.248	0.074	3.42	0.273	0.089	0.310	0.594	---	---	0.772	1973
1974	---	---	0.023	10.1	5.55	0.437	0.079	0.062	0.069	0.061	---	---	2.03	1974
1975	---	---	0.016	2.63	0.363	2.47	0.519	0.103	0.052	0.076	---	---	0.767	1975
1976	---	---	0	4.02	0.155	1.07	0.107	0.042	0.044	0.030	---	---	0.672	1976
1977	---	---	0.088	0.411	0.072	0.094	0.106	0.083	1.37	0.324	---	---	0.314	1977
1978	---	---	0	6.56	0.890	0.364	0.704	0.057	0.053	0.064	---	---	1.07	1978
1979	---	---	0	7.82	2.14	1.28	0.100	0.056	0.126	0.056	---	---	1.43	1979
1980	---	---	0	2.90	0.103	0.036	0.025	0.024	0.033	0.032	---	---	0.387	1980
1981	---	---	0.289	0.079	0.069	0.049	0.031	0.030	0.021	0.099	---	---	0.084	1981
1982	---	---	0.204	1.79	0.057	0.114	0.107	0.024	0.027	0.118	---	---	0.301	1982
MEAN	---	---	0.162	3.94	0.851	0.812	0.191	0.055	0.190	0.145	---	---	0.783	MEAN

LOCATION - LAT 50 11 40 N   DRAINAGE AREA, 249 km^2
LONG 96 42 50 W   NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1979

DEVILS CREEK NEAR LIBAU - STATION NO. 05OJ016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	32.8 AT 21:29 CST ON APR 10 *	29.2 ON APR 10	0.012 ON AUG 11	22 900	1971
1972	---	15.5 ON APR 15	0 B ON MAR 1 *	10 300	1972
1973	---	34.8 ON JUN 20	0 B ON MAR 1	16 300	1973
1974	---	58.3 ON APR 21 *	0.017B ON MAR 1	42 900	1974
1975	19.9 AT 02:38 CST ON JUN 23	17.0 ON JUN 23	0.016B ON MAR 1	16 200	1975
1976	---	17.0 B ON APR 5	0 B ON MAR 1	14 200	1976
1977	---	10.5 ON SEP 9	0 B ON MAR 1	6 660	1977
1978	17.8 AT 22:17 CST ON APR 15	15.7 ON APR 17	0 B ON MAR 1	22 700	1978
1979	---	47.8 B ON APR 19	0 B ON MAR 1	30 200	1979
1980	---	10.7 B ON APR 10	0 B ON MAR 1	8 180	1980
1981	0.445 AT 13:00 CST ON MAR 13	0.445B ON MAR 13	0.005 ON AUG 26	1 780	1981
1982	9.69 B AT 22:22 CST ON APR 14	7.05 B ON APR 14	0 B ON MAR 1	6 360	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		16 600	MEAN

DEVILS CREEK NEAR SEMPLE - STATION NO. 05OJ012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0	5.11	0.546	0.009	0.001	0.005	0.010	0.024	---	---	0.700	1967
1968	---	---	0.563	0.947	0.444	0.301	0.326	2.32	0.547	0.298	---	---	0.720	1968
1969	---	---	0	5.43	0.744	0.175	0.025	0.008	0.057	0.162	---	---	0.812	1969
1970	---	---	0	3.97	1.18	0.784	0.163	0.136	0.722	0.296	---	---	0.895	1970
MEAN	---	---	0.141	3.86	0.729	0.317	0.129	0.617	0.334	0.195	---	---	0.782	MEAN

LOCATION - LAT 50 13 20 N   DRAINAGE AREA, 280 km^2
LONG 96 43 30 W   NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1979

DEVILS CREEK NEAR SEMPLE - STATION NO. 05OJ012

EXTREMES OF DISCHAPGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	15.2 ON APR 15	0B ON MAR 1 *	14 800	1967
1968	---	15.3 ON AUG 25	0B ON MAR 1	15 200	1968
1969	---	23.7B ON APR 10 *	0B ON MAR 1	17 200	1969
1970	---	12.1B ON APR 17	0B ON MAR 1	19 000	1970
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		16 600	MEAN

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05OG009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.139	0.017	0.068	0.027	0.021	0.003	0	0	---	---	0.034	1981
1982	---	---	0.081	0.384	0	0	0	0	0	0.005	---	---	0.058	1982
MEAN	---	---	0.110	0.201	0.034	0.014	0.011	0.002	0	0.003	---	---	0.046	MEAN

LOCATION - LAT 49 39 32 N
LONG 97 17 20 W   NATURAL FLOW

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05OG009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	0.648 AT 12:06 CST ON MAY 23	0.434 ON MAY 24	0B ON MAR 1 *	729	1981
1982	3.92 AT 16:56 CST ON APR 14 *	2.87 ON APR 15 *	0B ON MAR 1	1 230	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		980	MEAN

DRAINAGE DITCH NEAR LIBAU - STATION NO. 05OJ013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0	0.278	0.011	0	0	0	0	0	---	---	0.035	1967
1969	---	---	0	0.371	0.034	0.013	0.002	0	0	0	---	---	0.052	1969
1970	---	---	0	0.548	0.023	0.001	0	0	0	0	---	---	0.070	1970
1971	---	---	0	0.705	0.014	0.008	0.003	0	0	0	---	---	0.089	1971
1972	---	---	0	0.285	0.002	0	0	0	0	0	---	---	0.035	1972
1973	---	---	0.082	0.007	0	0.127	0	0	0	0	---	---	0.027	1973
1975	---	---	0	0.363	0.003	0.161	0.001	0	0	0	---	---	0.065	1975
1976	---	---	0	0.329	0.001	0.376	0.001	0	0	0	---	---	0.087	1976
1977	---	---	0	0.078	0.010	0.013	0.003	0	0.253	0.003	---	---	0.044	1977
MEAN	---	---	0.009	0.329	0.011	0.078	0.001	0	0.028	0	---	---	0.056	MEAN

LOCATION - LAT 50 13 50 N DRAINAGE AREA, 13.5 km²
LONG 96 43 30 W NATURAL FLOW

DRAINAGE DITCH NEAR LIBAU - STATION NO. 05OJ013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	1.06 ON APR 15	0B ON MAR 1 *	750	1967
1969	---	3.43 ON APR 10	0 ON MAR 1	1 090	1969
1970	---	2.83B ON APR 17	0B ON MAR 1	1 480	1970
1971	---	5.66B ON APR 10	0B ON MAR 1	1 900	1971
1972	---	3.37 ON APR 15	0B ON MAR 1	745	1972
1973	---	1.53 ON JUN 20	0 ON MAR 1	566	1973
1975	---	6.26B ON APR 15 *	0B ON MAR 1	1 370	1975
1976	---	2.89B ON APR 6	0B ON MAR 1	1 830	1976
1977	---	2.13 ON SEP 10	0B ON MAR 1	939	1977
				1 190	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DRIFTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.15	2.85	4.78	1.86	0.076	0.545	0.667	0.292	---	---	1954
1955	---	---	---	3.45	2.25	0.794	0.058	0	0.003	0.001	0.001	---	---	1955
1956	---	---	0.048	1.51	5.77	0.669	0.310	0.013	0.070	0.096	0.212	---	1.06	1956
1957	---	---	0.087	3.65	0.936	0.158	0.037	0	0	0	---	---	0.600	1957
1958	---	---	0.104	0.340	0.060	0.034	0.005	0	0	0	---	---	0.067	1958
1959	---	---	0.465	0.544	0.286	0.890	0.340	0	0	0.015	---	---	0.315	1959
1960	---	---	0	3.63	1.40	0.548	0.014	0	0	0	---	---	0.690	1960
1961	---	---	0.003	0.075	0.037	0	0	0	0	0	---	---	0.014	1961
1962	---	---	0	0.796	0.083	0.073	0.029	0.001	0	0	---	---	0.121	1962
1963	---	---	0.184	0.490	0.383	0.354	0.168	0.001	0	0	---	---	0.196	1963
1964	---	---	0	0.278	0.125	0.024	0	0	0	0	---	---	0.053	1964
1965	---	---	0	0.744	0.352	0.278	0.308	0.277	0.651	0.441	---	---	0.379	1965
1966	---	---	0.344	3.35	0.999	0.532	0.269	0.072	0.054	0.007	---	---	0.696	1966
1967	---	---	0.008	4.33	1.97	0.101	0.006	0	0	0	---	---	0.794	1967
1968	---	---	0.128	0.327	0.048	0.026	0	0	0	0	---	---	0.066	1968
1969	---	---	0	1.74	0.181	0.081	0.483	0.166	0.006	0.078	---	---	0.339	1969
1970	---	---	0.026	4.49	2.76	0.848	0.363	0.129	0	0.008	---	---	1.07	1970
1971	---	---	0.003	2.84	0.321	0.869	0.034	0	0	0	---	---	0.499	1971
1972	---	---	0.235	2.43	0.931	0.047	0	0	0	0	---	---	0.451	1972
1973	---	---	0.046	0.062	0.015	0.185	0.016	0.002	0.023	0.093	---	---	0.055	1973
1974	---	---	0	4.60	4.40	0.808	0	0	0	0	---	---	1.22	1974
1975	---	---	0	3.54	1.78	1.50	0.097	0	0.332	0.309	---	---	0.934	1975
1976	---	---	0.006	3.94	0.409	4.97	0.216	0	0	0	---	---	1.17	1976
1977	---	---	0	0.016	0.029	0.014	0.253	0.005	0.021	0.022	---	---	0.045	1977
MEAN	---	---	0.077	2.10	1.18	0.774	0.203	0.031	0.071	0.072	0.168	---	0.492	MEAN

LOCATION - LAT 51 19 10 N DRAINAGE AREA, 251 km²
LONG 100 22 00 W NATURAL FLOW

DRIPTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	13.9 ON APR 17	0B ON APR 1 *	---	1954
1955	---	8.33 B ON APR 4	0 ON JUL 17	---	1955
1956	---	12.2 ON MAY 9	0 ON AUG 7	22 600	1956
1957	---	8.95 ON APR 26	0B ON MAR 1	12 700	1957
1958	---	1.53 ON APR 2	0B ON MAR 1	1 420	1958
1959	---	3.77 ON JUN 29	0B ON MAR 1	6 690	1959
1960	---	12.7 ON APR 13	0B ON MAR 1	14 600	1960
1961	---	0.181B ON APR 14	0B ON MAR 1	303	1961
1962	---	6.09 B ON APR 20	0B ON MAR 1	2 550	1962
1963	---	1.53 ON APR 10	0B ON MAR 1	4 160	1963
1964	---	0.816B ON APR 19	0B ON MAR 1	1 120	1964
1965	---	2.58 ON APR 13	0B ON MAR 1	8 030	1965
1966	---	24.1 ON APR 2	0 ON JUL 29	14 700	1966
1967	---	25.7 B ON APR 27 *	0 ON JUL 10	16 800	1967
1968	---	0.971B ON MAR 28	0B ON MAR 1	1 390	1968
1969	---	11.9 B ON APR 13	0B ON MAR 1	7 170	1969
1970	---	20.7 ON APR 25	0 ON AUG 15	22 600	1970
1971	---	15.9 B ON APR 11	0 ON JUL 22	10 600	1971
1972	---	6.37 B ON APR 16	0B ON MAR 1	9 540	1972
1973	---	0.818 ON JUN 21	0B ON MAR 1	1 160	1973
1974	---	24.5 B ON APR 19	0B ON MAR 1	25 800	1974
1975	---	10.4 B ON APR 20	0B ON MAR 1	19 800	1975
1976	---	25.4 ON JUN 14	0 ON JUL 28	24 800	1976
1977	---	2.42 ON JUL 15	0B ON MAR 1	961	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		10 400	MEAN

DUCK RIVER AT COWAN - STATION NO. 05LG004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.126	1.23	1.99	1.23	2.02	2.66	0.548	0.377	---	---	1.28	1968
1969	---	---	0.147	2.62	2.42	1.54	1.18	0.555	0.916	2.99	---	---	1.54	1969
1970	---	---	0.184	2.58	9.06	1.90	3.85	0.550	0.830	3.90	---	---	2.87	1970
1971	---	---	0.178	5.41	1.91	3.52	2.79	0.639	0.423	1.06	---	---	1.98	1971
1972	---	---	0.175	4.20	5.22	0.878	0.662	0.253	0.175	0.318	---	---	1.48	1972
1973	---	---	0.093	1.00	2.71	8.28	2.77	0.433	2.21	1.23	---	---	2.32	1973
1974	---	---	0.230	5.72	9.52	2.29	0.339	0.529	1.01	0.808	---	---	2.55	1974
1975	---	---	0.207	2.89	6.83	3.31	0.277	0.261	4.24	1.84	---	---	2.47	1975
1976	---	---	0.235	6.84	2.58	9.08	0.579	0.224	0.131	0.166	---	---	2.44	1976
1977	---	---	0.181	1.41	0.917	0.197	0.649	1.19	4.44	1.62	---	---	1.32	1977
1978	---	---	0.195	2.92	2.13	0.703	0.139	0.052	0.233	0.468	---	---	0.850	1978
1979	---	---	0.128	1.29	12.1	3.28	0.261	0.081	0.061	0.368	---	---	2.21	1979
1980	---	---	0.008	2.08	0.401	0.109	0.06[illegible]	0.575	0.199	0.274	---	---	0.459	1980
1981	---	---	0.056	0.864	0.975	2.51	0.540	0.172	0.141	0.569	---	---	0.723	1981
1982	---	---	0.020	1.87	1.58	1.05	5.08	0.417	0.218	0.627	---	---	1.36	1982
MEAN	---	---	0.144	2.86	4.02	2.66	1.41	0.573	1.05	1.11	---	---	1.72	MEAN

LOCATION - LAT 52 01 50 N   DRAINAGE AREA, 223 km^2
LONG 100 39 00 W   NATURAL FLOW

DUCK RIVER AT COWAN - STATION NO. 05LG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	17.7 ON AUG 20	0.068B ON MAR 1	27 000	1968
1969	---	14.5 ON OCT 4	0.108 ON AUG 27	32 700	1969
1970	---	23.6 E ON OCT 29	0.139 ON SEP 18	60 700	1970
1971	---	23.8 ON JUL 25	0.178B ON MAR 1	41 800	1971
1972	---	18.9 ON APR 30	0.051 ON SEP 2	31 400	1972
1973	---	69.1 ON JUN 20	0.059 ON AUG 24	49 200	1973
1974	---	33.7 ON MAY 22	0.102 ON AUG 10	54 000	1974
1975	---	25.5 ON SEP 20	0.051 ON JUL 29	52 300	1975
1976	110 ON JUN 14	83.0 ON JUN 14 *	0.119 ON SEP 26	51 700	1976
1977	17.6 AT 05:41 CST ON SEP 26	15.6 ON SEP 26	0.062 ON JUN 28	27 900	1977
1978	11.4 AT 03:28 CST ON APR 29	10.8 ON APR 28	0.007 ON AUG 10	18 000	1978
1979	41.0 AT 07:30 CST ON MAY 26	35.9 ON MAY 26	0.019 ON SEP 1	46 700	1979
1980	6.51 AT 04:05 CST ON APR 22	6.23 ON APR 21	0.005B ON MAR 1	9 720	1980
1981	16.1 AT 11:23 CST ON JUN 24	13.3 ON JUN 24	0 B ON MAR 1 *	15 300	1981
1982	116 AT 18:01 CST ON JUL 17 *	49.9 ON JUL 18	0 B ON MAR 1	28 800	1982
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		36 500	MEAN

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	0.874	0.256	0.191	0.194	0.124	0.107	0.176	---	---	---	1961
1962	---	---	---	1.86	0.376	0.352	0.236	0.215	0.120	0.284	---	---	---	1962
1963	---	---	0.581	6.96	0.990	3.87	0.537	0.529	0.506	0.375	---	---	3.06	1963
1964	---	---	0.173	1.92	1.02	0.535	0.454	0.418	0.323	0.428	---	---	0.907	1964
1965	---	---	0.057	3.29	1.05	0.992	0.696	0.383	0.351	0.279	---	---	1.34	1965
1966	---	---	0.145	2.13	1.38	0.385	0.355	0.211	0.183	0.211	---	---	1.01	1966
1967	---	---	0.074	4.05	0.917	0.346	0.296	0.237	0.152	0.197	---	---	1.33	1967
1968	---	---	0.504	1.71	0.758	0.569	0.586	0.362	0.524	0.279	---	---	0.882	1968
1969	---	---	0.110	3.68	0.457	0.462	0.291	0.867	0.419	0.500	---	---	1.16	1969
1970	---	---	0.133	4.36	1.22	0.506	0.394	0.255	0.193	0.184	---	---	1.54	1970
1971	---	---	0.068	2.24	0.240	0.244	0.256	0.169	0.117	0.138	---	---	0.689	1971
1972	---	---	0.088	4.69	0.546	0.244	0.231	0.224	0.158	0.137	---	---	1.38	1972
1973	---	---	0.552	0.358	0.285	0.485	0.275	0.210	0.261	0.549	---	---	0.420	1973
1974	---	---	0.207	14.7	9.07	0.907	0.442	0.249	0.215	0.215	---	---	6.19	1974
1975	---	---	0.145	2.66	0.612	0.424	0.328	2.17	2.03	1.21	---	---	0.950	1975
1976	---	---	0.230	17.9	0.768	0.442	0.343	0.232	0.161	0.173	---	---	4.76	1976
1977	---	---	0.146	0.447	0.297	0.406	---	---	---	---	---	---	0.322	1977
1978	---	---	0.054	6.77	0.630	0.480	---	---	---	---	---	---	1.96	1978
1979	---	---	0.097	13.0	4.23	1.01	---	---	---	---	---	---	4.55	1979
1980	---	---	0.094	2.83	0.314	0.214	---	---	---	---	---	---	0.852	1980
1981	---	---	0.556	0.514	0.361	0.617	---	---	---	---	---	---	0.511	1981
1982	---	---	0.184	3.81	0.572	0.476	---	---	---	---	---	---	1.25	1982
MEAN	---	---	0.210	4.58	1.20	0.644	0.370	0.428	0.364	0.333	---	---	1.75	MEAN

LOCATION - LAT 51 13 00 N DRAINAGE AREA, 394 km^2
LONG 97 32 00 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.69 ON APR 21	---	---	1961
1962	---	13.0 B ON APR 21	---	---	1962
1963	---	39.6 ON APR 9	0 B ON MAR 1 *	32 300	1963
1964	---	9.12B ON APR 16	0.147B ON MAR 2	9 560	1964
1965	---	17.1 ON APR 14	0.040B ON MAR 1	14 100	1965
1966	---	12.1 B ON APR 4	0.130B ON MAR 1	10 600	1966
1967	---	18.7 ON APR 16	0.074B ON MAR 1	14 100	1967
1968	---	5.21B ON APR 9	0.119B ON MAR 1	9 300	1968
1969	---	23.0 ON APR 12	0.110B ON MAR 1	12 300	1969
1970	---	15.0 B ON APR 19	0.133B ON MAR 1	16 200	1970
1971	---	11.6 ON APR 19	0.068B ON MAR 1	7 260	1971
1972	---	28.9 ON APR 18	0.088B ON MAR 1	14 500	1972
1973	---	1.75B ON MAR 25	0.085B ON MAR 1	4 430	1973
1974	---	64.8 ON APR 20	0.207B ON MAR 1	65 200	1974
1975	---	9.97B ON APR 19	0.142B ON MAR 1	10 000	1975
1976	---	61.2 B ON APR 7	0.212B ON MAR 25	50 100	1976
1977	---	2.10 ON MAY 30	0.071 ON MAY 13	3 400	1977
1978	---	27.6 ON APR 18	0 B ON MAR 1	20 700	1978
1979	---	70.8 ON APR 23 *	0.082B ON MAR 1	47 900	1979
1980	---	9.61B ON APR 11	0.081B ON MAR 30	8 990	1980
1981	3.20 AT 23:07 CST ON JUN 19 *	2.98 ON JUN 19	0 ON JUN 30	5 390	1981
1982	---	25.7 E ON APR 15	0.090B ON MAR 25	13 100	1982
MEAN				18 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	---	---	0.230	0.024	0.032	0.015	0.015	0.024	0.019	0.014	---	1964
1965	0.012	0.011	0.014	0.124	0.613	0.210	0.098	0.072	0.397	0.093	0.053	0.033	0.145	1965
1966	0.016	0.014	0.023	0.338	0.754	0.239	0.046	0.040	0.024	0.029	0.033	0.024	0.132	1966
1967	0.024	0.021	0.022	0.058	0.589	0.094	0.027	0.025	0.015	0.022	0.024	0.014	0.079	1967
1968	0.013	0.012	0.027	0.123	0.244	0.165	0.132	0.098	0.054	0.044	0.031	0.025	0.081	1968
1969	0.022	0.017	0.006	0.414	0.252	0.574	0.227	0.037	0.075	0.084	0.050	0.036	0.150	1969
1970	0.028	0.035	0.034	0.089	0.620	0.316	0.186	0.044	0.139	0.233	0.106	0.036	0.156	1970
1971	0.012	0.008	0.022	0.607	0.140	0.384	0.124	0.046	0.026	0.134	0.074	0.051	0.160	1971
1972	0.045	0.029	0.035	0.476	0.432	0.046	0.024	0.018	0.015	0.029	0.064	0.029	0.103	1972
1973	0.037	0.041	0.040	0.051	0.091	0.250	0.033	0.029	0.415	0.314	0.211	0.066	0.131	1973
1974	0.024	0.023	0.027	0.782	1.34	0.105	0.042	0.027	0.029	0.031	0.031	0.031	0.209	1974
1975	0.013	0.009	0.011	0.120	0.473	0.238	0.042	0.094	1.44	0.214	0.180	0.059	0.233	1975
1976	0.051	0.042	0.036	0.769	0.134	0.343	0.081	0.035	0.018	0.024	0.023	0.022	0.130	1976
1977	0.019	0.023	0.037	0.075	0.073	0.034	0.392	0.059	0.415	0.101	0.063	0.036	0.111	1977
1978	0.022	0.021	0.024	0.372	0.118	0.084	0.066	0.026	0.075	0.122	0.032	0.018	0.082	1978
1979	0.023	0.016	0.024	0.229	1.03	0.153	0.037	0.028	0.030	0.036	0.033	0.029	0.140	1979
1980	0.027	0.023	0.019	0.103	0.027	0.019	0.026	0.102	0.094	0.070	0.031	0.014	0.046	1980
1981	0.014	0.021	0.267	0.310	0.276	0.349	0.041	0.037	0.033	0.045	0.028	0.006	0.120	1981
1982	0	0	0.003	0.222	0.202	0.098	0.027	0.031	0.023	0.337	0.152	0.030	0.101	1982
MEAN	0.022	0.020	0.037	0.293	0.406	0.212	0.089	0.045	0.175	0.105	0.061	0.030	0.120	MEAN

LOCATION - LAT 50 59 03 N DRAINAGE AREA, 14.8 km^2
LONG 100 03 35 W NATURAL FLOW

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	---	---	---	1964
1965	---	2.22 ON MAY 7	0.011B ON JAN 11	4 560	1965
1966	---	2.64 ON MAY 19	0.014B ON JAN 19	4 170	1966
1967	---	1.36 B ON MAY 15	0.006B ON DEC 26	2 490	1967
1968	---	0.954 ON MAY 8	0.008B ON JAN 1	2 560	1968
1969	---	4.96 E ON JUN 27	0.005B ON MAR 11	4 720	1969
1970	---	1.75 B ON MAY 8	0.023B ON DEC 29	4 930	1970
1971	---	5.66 E ON JUN 6	0.007B ON FEB 10	5 040	1971
1972	---	1.81 ON APR 26	0 ON SEP 2 *	3 270	1972
1973	---	5.61 ON SEP 4	0 ON JUL 21	4 140	1973
1974	---	4.13 ON APR 27	0.020B ON DEC 31	6 590	1974
1975	36.8 AT 05:16 CST ON SEP 19 *	26.9 ON SEP 19 *	0.009B ON FEB 4	7 370	1975
1976	---	2.89 ON APR 14	0.012 ON MAY 30	4 110	1976
1977	---	6.20 E ON JUL 11	0.014B ON JAN 7	3 500	1977
1978	---	2.09 A ON APR 25	0.015B ON DEC 7	2 570	1978
1979	---	3.70 A ON MAY 17	0.013B ON FEB 27	4 430	1979
1980	0.966 AT 11:02 CST ON AUG 4	0.529A ON SEP 4	0.014B ON DEC 8	1 460	1980
1981	4.96 AT 12:09 CST ON JUN 15	2.30 ON JUN 15	0 B ON DEC 19	3 780	1981
1982	---	1.86 ON OCT 29	0 B ON JAN 1	3 190	1982
A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 050	MEAN

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.151	---	1962
1963	0.070	0.146	0.129	1.09	0.448	0.594	0.113	0.053	0.084	0.089	0.106	0.150	0.254	1963
1964	0.127	0.118	0.130	0.628	0.552	0.081	---	---	---	---	---	---	---	1964
MEAN	0.099	0.132	0.130	0.859	0.500	0.338	0.113	0.053	0.084	0.089	0.106	0.151	0.254	MEAN

LOCATION - LAT 51 01 21 N DRAINAGE AREA, 51.5 km^2
LONG 100 04 54 W REGULATED

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	3.88B ON APR 8 *	0 ON JAN 15 *	8 020	1963
1964	---	---	---	---	1964
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 020	MEAN

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.103	2.15	0.099	0.037	0.079	0.468	0.400	0.274	---	---	0.447	1980
1981	---	---	0.129	0.833	1.52	1.82	0.240	0.233	0.042	0.118	---	---	0.613	1981
1982	---	---	0.060	4.06	1.63	0.295	0.054	0.041	0.008	0.899	---	---	0.875	1982
MEAN	---	---	0.097	2.35	1.08	0.717	0.124	0.247	0.150	0.430	---	---	0.645	MEAN

LOCATION - LAT 51 08 30 N DRAINAGE AREA, 311 km^2
LONG 99 55 20 W REGULATED

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGA (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	6.97B ON APR 6	0 ON MAY 22 *	9 450	1980
1981	12.5 AT 18:56 CST ON JUN 13 *	6.51 ON JUN 16	0 ON SEP 18	13 000	1981
1982	---	17.3 B ON APR 14 *	0B ON MAR 1	18 500	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		13 700	MEAN

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.096	5.44	2.24	1.45	0.104	0.098	0.122	0.121	---	---	1.20	1957
1958	---	---	0.363	1.31	0.280	0.086	6.313	0.016	0.026	0.147	---	---	0.316	1958
1959	---	---	0.044	1.64	2.14	0.877	0.515	0.072	0.105	0.647	---	---	0.753	1959
1960	---	---	0.062	4.28	6.01	0.684	0.127	0.074	0.012	0.056	---	---	1.41	1960
1961	---	---	0.012	0.521	0.676	0.036	0.038	0	0	0.006	---	---	0.161	1961
1962	---	---	0.100	0.003	1.16	0.868	0.032	0.044	0.104	0.381	---	---	0.439	1962
1963	---	---	0.264	2.73 R	1.24 R	1.69 R	0.276	0.083	0.172	0.178	---	---	0.820R	1963
1964	---	---	0	2.48	1.20	0.086	0.077	0.012	0.022	0.039	---	---	0.485	1964
1965	---	---	0.003	1.09	2.06	0.850	0.250	0.123	1.86	0.417	---	---	0.827	1965
1966	---	---	0.179	1.97	2.94	0.712	0.206	0.170	0.015	0.066	---	---	0.781	1966
1967	---	---	0	0.901	3.37	0.216	0.030	0.021	0	0.090	---	---	0.505	1967
1968	---	---	0.218	0.694	0.762	0.430	1.08	0.339	0.118	0.123	---	---	0.471	1968
1969	---	---	0.006	1.43	0.608	3.21 R	1.42	0.111	0.190	0.186	---	---	0.887R	1969
1970	---	---	0.133	1.11	6.39	0.896	0.497	0.084	0.257	0.311	---	---	1.22	1970
1971	---	---	0.153	2.62	0.558	2.24	0.549	0.165	0.109	0.582	---	---	0.863	1971
1972	---	---	0.407	2.40	1.82	0.174	0.046	0.014	0.020	0.031	---	---	0.611	1972
1973	---	---	0.645	0.426	0.259	0.504	0.053	0.043	0.921	0.999	---	---	0.480	1973
1974	---	---	0	5.43	8.86	0.620	0.075	0.097	0.312	0.240	---	---	1.95	1974
1975	---	---	0.122	1.75	2.10	1.03	0.077	0.585	7.19	1.36	---	---	1.76	1975
1976	---	---	0.094	4.58	0.780	4.44	0.538	0.116	0.078	0.074	---	---	1.32	1976
1977	---	---	0.066	0.441	0.157	0.026	0.986	0.278	1.46	0.645	---	---	0.505	1977
1978	---	---	0.165	2.58	0.539	0.418	0.242	0.063	0.289	0.623	---	---	0.609	1978
1979	---	---	0.087	3.21	7.13	1.20	0.146	0.090	0.109	0.061	---	---	1.50	1979
1980	---	---	0.098	0.794	0.204	0.237	0.204	0.388	0.376	0.314	---	---	0.325	1980
MEAN	---	---	0.138	2.11 R	2.23 R	0.958R	0.328	0.129	0.579	0.319	---	---	0.845	MEAN

LOCATION - LAT 51 07 30 N DRAINAGE AREA, 142 km²
LONG 100 02 20 W REGULATED

R - REVISED SINCE JAN 1980

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	25.0 B AT 18:20 CST ON APR 24	25.0 B ON APR 24	0.028B ON MAR 1	25 300	1957
1958	3.91 AT 08:00 CST ON JUL 6	2.94B ON APR 1	0 B ON MAR 1 *	6 700	1958
1959	7.93 AT 00:00 CST ON MAY 4	5.72 ON MAY 4	0 B ON MAR 1	15 900	1959
1960	41.9 AT 16:30 CST ON MAY 26	22.3 ON MAY 26	0 ON SEP 18	29 900	1960
1961	---	1.91A ON MAY 7	0 B ON MAR 1	3 400	1961
1962	---	4.36A ON MAY 30	0 B ON MAR 1	9 300	1962
1963	24.7 R AT 21:00 CST ON JUN 18	7.90R ON APR 8	0 B ON MAR 1	17 400R	1963
1964	---	8.33B ON APR 11	0 B ON MAR 1	10 300	1964
1965	---	7.48A ON MAY 7	0 B ON MAR 1	17 500	1965
1966	14.3 AT 01:00 CST ON MAY 5	9.57 ON MAY 5	0.006 ON SEP 22	16 500	1966
1967	---	6.97E ON MAY 16	0 B ON MAR 1	12 400	1967
1968	9.00 AT 21:35 CST ON JUL 1	5.55 ON JUL 2	0.010 ON AUG 14	9 960	1968
1969	76.5 R AT 08:06 CST ON JUN 27	41.6 R ON JUN 27	0.001 ON SEP 18	18 800R	1969
1970	26.5 AT 03:12 CST ON MAY 7	20.4 ON MAY 7	0.005 ON SEP 9	25 700	1970
1971	28.1 AT 15:18 CST ON JUN 6	17.3 ON JUN 6	0.018 ON AUG 29	18 300	1971
1972	9.37 AT 00:48 CST ON APR 22	7.36 ON APR 21	0 ON AUG 28	12 900	1972
1973	8.81 AT 20:00 CST ON OCT 3	6.91 ON OCT 3	0 ON JUL 23	10 200	1973
1974	36.5 B AT 12:15 CST ON APR 19	26.2 B ON APR 19	0 B ON MAR 1	41 300	1974
1975	114 AT 10:57 CST ON SEP 19 *	102 ON SEP 19 *	0 ON JUL 13	37 200	1975
1976	75.9 AT 22:00 CST ON JUN 13	32.8 ON JUN 14	0.012 ON OCT 27	27 900	1976
1977	22.0 AT 01:22 CST ON JUL 12	10.9 ON JUL 12	0.001 ON JUN 7	10 700	1977
1978	8.01 AT 20:47 CST ON APR 23	5.66 ON APR 23	0.012 ON AUG 5	12 900	1978
1979	44.7 AT 04:29 CST ON MAY 17	29.5 ON MAY 17	0.016 ON AUG 21	31 800	1979
1980	---	2.71B ON APR 4	0 E ON JUN 12	6 890	1980
MEAN				17 900R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO. 05LJ020

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.37	1.97	2.52	0.944	0.239	2.13	1.05	---	---	---	1954
1955	---	---	---	2.60	3.76	2.79	0.331	0.099	0.021	0.062	---	---	---	1955
1956	---	---	0.198	1.56	3.01	3.01	1.54	0.240	0.186	0.142	---	---	---	1956
MEAN	---	---	0.198	1.84	2.91	2.77	0.938	0.193	0.779	0.418	---	---	---	MEAN

LOCATION - LAT 51 06 35 N DRAINAGE AREA, 138 km²
LONG 100 03 45 W NATURAL FLOW

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO. 05LJ020

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	13.9 ON SEP 29	0.142B ON APR 1	---	1954
1955	---	21.0 ON JUN 10	0 ON SEP 4 *	---	1955
1956	---	36.2 ON JUN 19 *	0 ON JUL 14	---	1956
				---	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO. 05LJ030

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.075	---	1962
1963	0.066	0.122	0.071	0.079	0.040	0.044	0.015	0.056	0.050	0.027	0.115	0.105	0.069	1963
1964	0.115	0.111	0.093	0.076	0.030	0.022	0.029	0.036	0.034	0.017	0.056	0.074	0.058	1964
1965	0.071	0.074	0.063	0.034	0.028	0.018	0.005	0.004	0.093	0.042	0.074	0.106	0.051	1965
1966	0.104	0.100	0.101	0.052	0.320	0.121	0.026	0.012	0.014	0.015	0.101	0.099	0.089	1966
1967	0.093	0.089	0.085	0.085	0.092	0.009	0.012	0.014	0.028	0.010	0.089	0.081	0.057	1967
1968	0.086	0.088	0.081	0.036	0.028	0.010	0.045	0.018	0.003	0.002	0.072	0.096	0.047	1968
1969	0.082	0.090	0.095	0.094	0.089	0.260	0.424	0.001	0.025	0.014	0.044	0.094	0.103	1969
1970	0.100	0.088	0.083	0.062	0.517	0.259	0.126	0.072	0.063	0.018	0.092	0.110	0.133	1970
1971	0.099	0.093	0.093	0.091	0.031	0.604	0.130	0.097	0.069	0.029	0.098	0.086	0.126	1971
1972	0.087	0.090	0.094	0.090	0.139	0.011	0.032	0.010	0.060	0.004	0.151	0.093	0.072	1972
1973	0.078	0.074	0.069	0.001	0.006	0.024	0.025	0.036	0.060	0.014	0.000	0.115	0.049	1973
1974	0.100	0.091	0.101	0.172	0.784	0.140	0.027	0.019	0.062	0.057	0.111	0.114	0.150	1974
1975	0.124	0.118	0.102	0.068	0.063	0.062	0.060	0.078	1.80	0.140	0.146	0.153	0.201	1975
1976	0.142	0.139	0.149	0.154	0.028	0.460	0.096	0.077	0.045	0.047	0.093	0.068	0.124	1976
MEAN	0.096	0.098	0.091	0.078	0.151	0.147	0.075	0.038	0.173	0.031	0.094	0.101	0.098	MEAN

LOCATION - LAT 50 55 30 N   DRAINAGE AREA, 11.7 km^2
LONG 100 02 40 W   REGULATED SINCE 1962

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO. 05LJ030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	0.484E ON APR 17	0 E ON JUL 6 *	2 190	1963
1964	---	0.150 ON MAY 8	0 E ON MAY 21	1 820	1964
1965	---	0.224 ON APR 30	0 E ON JUN 24	1 600	1965
1966	---	0.098 ON MAY 21	0.003 ON APR 8	2 800	1966
1967	---	0.246 ON MAY 17	0 E ON JUN 6	1 800	1967
1968	---	0.235 ON JUL 2	0.001 ON SEP 30	1 490	1968
1969	---	2.61 ON JUN 30	0 ON AUG 9	3 240	1969
1970	---	1.54 ON MAY 20	0.008 ON OCT 19	4 190	1970
1971	---	1.12 ON JUN 14	0.004 ON OCT 17	3 970	1971
1972	---	0.241 ON MAY 17	0 ON JUL 5	2 270	1972
1973	---	0.227E ON SEP 5	0 ON APR 7	1 550	1973
1974	---	1.60 ON MAY 12	0.013E ON JUL 6	4 720	1974
1975	33.1 AT 12:00 CST ON SEP 19 *	22.9 ON SEP 19 *	0.001 ON AUG 24	7 590	1975
1976	---	3.94 ON JUN 15	0.002E ON JUN 4	3 920	1976
				3 000	MEAN

E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELGIN CREEK NEAR SOURIS - STATION NO. 05NG012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.177	0.425	0.089	0	0	0	0	0	---	---	0.086	1961
1962	---	---	0	1.25	0.085	0.128	0.048	0.019	0.036	0	---	---	0.193	1962
1963	---	---	0.106	0.221	0.002	0.023	0	0	0	0	---	---	0.044	1963
1964	---	---	0	0.535	0.185	0.001	0	0	0	0	---	---	0.084	1964
1965	---	---	0	2.75	0.043	0.015	1.39	0.077	0.189	0.068	---	---	0.562	1965
1966	---	---	0.463	0.461	0.127	0.059	0.008	0	0	0	---	---	0.139	1966
1967	---	---	0.011	0.702	0.130	0	0	0	0	0	---	---	0.104	1967
1969	---	---	0	2.62	0.107	0.005	0.338	0.022	0.002	0	---	---	0.381	1969
1970	---	---	0	4.19	0.932	0.042	0.350	0.016	0	0	---	---	0.682	1970
1971	---	---	0.001	0.525	0.096	0.326	0.140	0	0	0	---	---	0.134	1971
1972	---	---	1.77	0.287	0.086	0.009	0.001	0.080	0.003	0	---	---	0.282	1972
1973	---	---	0	0	0	0.027	0.229	0.059	0.042	0.017	---	---	0.047	1973
1974	---	---	0	8.50	0.795	0.066	0	0	0	0	---	---	1.15	1974
1975	---	---	0	4.09	1.08	0.173	0.015	0.135	0.303	0.141	---	---	0.733	1975
1976	---	---	0.006	11.6	0.252	0.253	0.031	0	0	0	---	---	1.49	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.008	1.99	0.056	0.006	0	0	0	0	---	---	0.252	1978
1979	---	---	0	1.72	0.550	0.046	0	0	0	0	---	---	0.286	1979
1980	---	---	0	0.309	0.001	0	0	0.192	0.098	0.060	---	---	0.084	1980
1981	---	0.379	0.121	0.021	0.007	0.028	0.029	0	0.001	0.001	---	---	0.026	1981
1982	---	---	0.027	4.68	0.129	0.031	0	0	0	0	---	---	0.597	1982
MEAN	---	0.379	0.128	2.23	0.224	0.059	0.123	0.029	0.032	0.015	---	---	0.350	MEAN

LOCATION - LAT 49 35 28 N DRAINAGE AREA, 1 180 km²
LONG 100 14 05 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.91 AND 0 m³/s OCCURRED IN FEB

ELGIN CREEK NEAR SOURIS - STATION NO. 05NG012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1961	---	2.06 ON APR 5	0B ON MAR 1 *	1 810	1961
1962	---	6.51 ON APR 17	0B ON MAR 1	4 070	1962
1963	---	0.909 ON APR 7	0B ON MAR 1	924	1963
1964	---	2.53 ON APR 9	0B ON MAR 1	1 780	1964
1965	---	17.3 ON APR 11	0B ON MAR 1	11 900	1965
1966	---	3.71 B ON MAR 31	0B ON MAR 1	2 940	1966
1967	---	1.85 ON APR 14	0B ON MAR 1	2 200	1967
1969	---	11.3 B ON APR 14	0B ON MAR 1	8 070	1969
1970	---	18.0 ON APR 27	0B ON MAR 1	14 500	1970
1971	---	1.49 B ON APR 9	0B ON MAR 1	2 880	1971
1972	---	9.12 B ON MAR 17	0B ON MAR 1	5 970	1972
1973	---	1.70 ON JUL 27	0B ON MAR 1	996	1973
1974	---	38.5 B ON APR 19	0B ON MAR 1	24 300	1974
1975	---	25.3 ON APR 29	0B ON MAR 1	15 500	1975
1976	---	54.6 B ON APR 10 *	0 ON JUL 22	31 500	1976
1977	---	0.001B ON MAR 16	0B ON MAR 1	0.60	1977
1978	---	9.94 B ON APR 4	0B ON MAR 1	5 330	1978
1979	---	16.7 B ON APR 22	0B ON MAR 1	6 050	1979
1980	---	2.75 B ON APR 6	0B ON MAR 1	1 780	1980
1981	---	0.215B ON MAR 1	0 ON MAY 21	555	1981
1982	35.9B AT 17:06 CST ON APR 13 *	25.0 B ON APR 14	0B ON MAR 1	12 600	1982
				7 410	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELM CREEK CHANNEL NO. 1 NEAR FANNYSTELLE - STATION NO. 05OG004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.053	7.28	0.437	0.147	0.004	0	0	0	---	---	0.972	1960
1961	---	---	0.970	3.09	0.107	0	0	0	0	0	---	---	0.516	1961
1962	---	---	0	3.61	1.60	2.20 R	0.170	3.49	0.034	0	---	---	1.36 R	1962
1964	---	---	0	2.07	0.091	0.549	0.022	0.005	0.012	0	---	---	0.337	1964
1965	---	---	0	9.78	0.604	0.235	0	0	0	0	---	---	1.31	1965
1966	---	---	0.024	4.01	2.57	0	0.314	0.249	0.308	0	---	---	0.937	1966
1967	---	---	0	16.7	0.008	0.003	0.052	0	0	0	---	---	2.16	1967
1968	---	---	0.190	0.322B	0.022	0.005	0.163	4.98	0.614	0.016	---	---	0.795B	1968
1969	---	---	0	9.46	2.87	1.03	2.93	1.46	0.014	0	---	---	2.20	1969
1970	---	---	0	15.5	6.12	0.620	0.004	0	0	0	---	---	2.76	1970
1971	---	---	0	5.08	0.356	0.079	0.008	0.006	0	0.053	---	---	0.693	1971
1972	---	---	0.411	5.54	0.121	0	0	0.019	0	0	---	---	0.748	1972
1973	---	---	0.637	0.020	0.013	0.010	0.157	0.194	0.025	0.043	---	---	0.139	1973
1974	---	---	0	10.4	11.9	0.369	0	0	0	0	---	---	3.01	1974
1975	---	---	0	3.02	0.063	0.108	---	---	---	---	---	---	---	1975
1976	---	---	0	10.4	0.035	0.091	0.001	0	0	0	---	---	1.30	1976
1977	---	---	0.001	0.290	0.301	0.191	0.191	0	0.059	0	---	---	0.226	1977
MEAN	---	---	0.135	6.73 R	1.70	0.331R	0.358	0.640	0.121	0.007	---	---	1.26	MEAN

LOCATION - LAT 49 48 42 N DRAINAGE AREA, 860 km²
LONG 97 46 38 W REGULATED

R - REVISED SINCE JAN 1980

ELM CREEK CHANNEL NO. 1 NEAR FANNYSTELLE - STATION NO. 05OG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	18.0 B ON APR 7	0B ON MAR 1 *	20 600	1960
1961	---	14.0 B ON APR 8	0B ON MAR 1	10 900	1961
1962	---	27.5 ON AUG 23	0B ON MAR 1	26 700R	1962
1964	---	11.6 ON APR 15	0B ON MAR 1	7 130	1964
1965	---	56.6 ON APR 14	0B ON MAR 1	27 700	1965
1966	---	27.3 ON MAY 5	0B ON MAR 1	19 800	1966
1967	---	57.8 ON APR 20	0B ON MAR 1	45 600	1967
1968	---	36.5 ON AUG 24	0B ON MAR 1	16 800R	1968
1969	---	42.8 B ON APR 10	0B ON MAR 1	46 600	1969
1970	---	69.1 ON APR 25	0B ON MAR 1	58 300	1970
1971	---	36.2 ON APR 11	0B ON MAR 1	14 700	1971
1972	29.2 B AT 04:20 CST ON APR 15	26.7 B ON APR 15	0B ON MAR 1	15 900	1972
1973	---	2.54B ON MAR 23	0B ON MAR 1	2 950	1973
1974	---	79.0 B ON APR 18 *	0B ON MAR 1	80 700	1974
1975	29.4 AT 02:15 CST ON APR 29	21.3 ON APR 29	0B ON MAR 1	---	1975
1976	89.5 B AT 02:00 CST ON APR 8 *	57.8 B ON APR 7	0B ON MAR 1	27 500	1976
1977	9.77 AT 23:13 CST ON SEP 9	4.42 ON SEP 10	0B ON MAR 1	4 800	1977
				26 700R	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK - STATION NO. 05OG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	3.22 R	0.303R	0.096R	0	0	0	0	---	---	0.893R	1960
1961	---	---	0.777	1.38	0.065	0	0	0	0	0	---	---	0.533	1961
1962	---	---	0	1.53	0.656	1.34	0.114	1.41	0.021	0.035	---	---	0.869	1962
1963	---	---	0.744	1.09	0.874	1.70	0.070	0	0	0	---	---	1.10	1963
1964	---	---	0	0.719	0.075	0.346	0	0	0	0	---	---	0.281	1964
1965	---	---	0	4.81	0.385	0.215	0	0	0	0	---	---	1.33	1965
1966	---	---	0	0.933	1.66	0.011	0.282	0.118	0.066	0	---	---	0.653	1966
1967	---	---	0	7.22	0.612	0	0	0	0	0	---	---	1.93	1967
1968	---	---	0.109	0.187	0.045	0.002	0.078	1.88	0.356	0.012	---	---	0.086	1968
1969	---	---	0	5.58	1.83	0.638	2.37	0.380	0.005	0	---	---	1.99	1969
1970	---	---	0	9.19	4.50	0.407	0.017	0	0.002	0	---	---	3.50	1970
1971	---	---	0	2.00	0.229	0.045	0.043	0.002	0	0.023	---	---	0.560	1971
1972	---	---	0.630	2.41	0.114	0	0	0.020	0	0	---	---	0.782	1972
1973	---	---	0.585	0.014	0.012	0.003	---	---	---	---	---	---	0.156	1973
1974	---	---	0	10.4	8.41	0.577	---	---	---	---	---	---	4.84	1974
1975	---	---	0	1.81	0.337	0.148	0.070	0.002	0.001	0	---	---	0.567	1975
1976	---	---	0	5.81	0.046	0.062	0	0	0	---	---	---	1.46	1976
1977	---	---	0	0.064	0.043	0.017	---	---	---	---	---	---	0.031	1977
1978	---	---	0.003	4.05	0.778	0.230	---	---	---	---	---	---	1.25	1978
1979	---	---	0	10.9	9.02	1.11	---	---	---	---	---	---	5.45	1979
1980	---	---	0	0.617	0	0	---	---	---	---	---	---	0.152	1980
1981	---	0.008	0.047	0.005	0	0	---	---	---	---	---	---	0.013	1981
1982	---	---	0.072	0.576	0	0	---	---	---	---	---	---	0.160	1982
MEAN	---	0.008	0.129	3.24 R	1.34 R	0.302R	0.203	0.254	0.030	0.005	---	---	1.24	MEAN

LOCATION - LAT 49 48 42 N   DRAINAGE AREA, 673 km^2
LONG 97 58 57 W   REGULATED

R - REVISED SINCE JAN 1980

REMARKS - AN EQUATION TO GENERATE SOME ANNUAL FLOW VOLUME IS AVAILABLE

ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK - STATION NO. 05OG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	8.81 ON APR 11	0B ON MAR 1 *	9 420R	1960
1961	---	5.35 B ON APR 1	0B ON MAR 1	5 610	1961
1962	---	19.3 B ON APR 20	0B ON MAR 1	9 160	1962
1963	---	10.7 ON JUN 4	0B ON MAR 1	11 500	1963
1964	---	4.39 ON APR 15	0B ON MAR 1	2 960	1964
1965	---	33.4 ON APR 13	0B ON MAR 1	14 100	1965
1966	---	13.8 ON MAY 5	0B ON MAR 1	6 890	1966
1967	---	25.1 ON APR 20	0B ON MAR 1	20 300	1967
1968	---	0.708B ON MAR 29	0B ON MAR 1	902	1968
1969	---	26.6 ON APR 12	0B ON MAR 1	21 100	1969
1970	---	43.8 ON APR 25	0B ON MAR 1	37 000	1970
1971	---	13.4 ON APR 11	0B ON MAR 1	5 990	1971
1972	---	13.0 B ON APR 14	0B ON MAR 1	8 250	1972
1973	---	1.51 B ON MAR 22	0B ON MAR 1	1 650	1973
1974	---	47.0 B ON APR 17	0B ON MAR 1	51 000	1974
1975	---	8.69 B ON APR 14	0B ON MAR 1	5 980	1975
1976	---	38.8 B ON APR 6	0B ON MAR 1	15 400	1976
1977	---	0.241B ON APR 9	0B ON MAR 1	329	1977
1978	---	19.2 B ON APR 10	0B ON MAR 1	13 200	1978
1979	---	62.1 A ON APR 23 *	0B ON MAR 1	57 500	1979
1980	---	2.30 B ON APR 10	0B ON MAR 1	1 600	1980
1981	---	0.086B ON MAR 18	0 ON APR 10	140	1981
1982	3.82 AT 19:57 CST ON APR 14 *	2.66 B ON APR 13	0B ON MAR 1	1 680	1982
				13 100R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05OG006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.84 R	0.145	0.050	0.003	0	0	0	---	---	0.501R	1960
1961	---	---	0.264	0.769	0.029	0	0	0	0	0	---	---	0.264	1961
1962	---	---	0	0.797	0.305	0.167	0.008	0.676	0.005	0	---	---	0.335	1962
1964	---	---	0	0.484	0.010	0	0	0	0	0	---	---	0.123	1964
1965	---	---	0	2.67	0.226	0.104	0	0	0	0	---	---	0.738	1965
1966	---	---	0.009	0.586	0.759	0.002	0.133	0.019	0.043	0	---	---	0.340	1966
1967	---	---	0	4.51	0.560	0.002	0	0	0	0	---	---	1.25	1967
1968	---	---	0.026	0.106	0.016	0.002	0.039	1.00	0.244	0.015	---	---	0.057	1968
1969	---	---	0	3.16	1.07	0.435	1.83	0.252	0.002	0	---	---	1.16	1969
1970	---	---	0	4.76	2.89	0.191	0.008	0	0	0	---	---	1.95	1970
1971	---	---	0	1.18	0.122	0.009	0.097	0.003	0	0.024	---	---	0.323	1971
1972	---	---	0.394	1.40	0.078	0	0	0	0	0	---	---	0.464	1972
1973	---	---	0.324	0.005	0.008	0.001	0.004	0.005	0.002	0.005	---	---	0.086	1973
1974	---	---	0	6.27	6.89	0.297	0	0	0	0	---	---	3.37	1974
1975	---	---	0	0.997	0.255	0.031	---	---	---	---	---	---	0.317	1975
1976	---	---	0	2.66	0.041	0.037	---	0	0	---	---	---	0.674	1976
1977	---	---	0.001	0.059	0	0.012	---	---	---	---	---	---	0.018	1977
1978	---	---	0	1.41	0.287	0.133	---	---	---	---	---	---	0.451	1978
1979	---	---	0	5.57	7.22	0.790	---	---	---	---	---	---	3.40	1979
1980	---	---	0	0.325	0	0	---	---	---	---	---	---	0.080	1980
1981	---	0.006	0.003	0	0	0	---	---	---	---	---	---	0.001	1981
1982	---	---	0.049	0.270	0	0	---	---	---	---	---	---	0.081	1982
MEAN	---	0.006	0.049	1.01 R	0.955	0.103	0.152	0.136	0.020	0.003	---	---	0.727	MEAN

LOCATION - LAT 49 47 54 N DRAINAGE AREA, 484 km²
LONG 98 00 20 W REGULATED

R - REVISED SINCE JAN 1980

REMARKS - AN EQUATION TO GENERATE SOME ANNUAL FLOW VOLUME IS AVAILABLE

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05OG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	4.96 ON APR 9	0B ON MAR 1 *	5 280 R	1960
1961	---	2.66 B ON MAR 31	0B ON MAR 1	2 780	1961
1962	---	7.62 B ON APR 20	0B ON MAR 1	3 530	1962
1964	---	1.70 B ON APR 11	0B ON MAR 1	1 300	1964
1965	---	15.6 ON APR 13	0B ON MAR 1	7 780	1965
1966	---	6.80 ON MAY 5	0B ON MAR 1	3 580	1966
1967	---	20.5 ON APR 21	0B ON MAR 1	13 200	1967
1968	---	2.36 ON APR 23	0B ON MAR 1	599	1968
1969	---	10.7 ON APR 11	0B ON MAR 1	12 200	1969
1970	---	24.7 ON APR 26	0B ON MAR 1	20 500	1970
1971	---	7.11 B ON APR 10	0B ON MAR 1	3 400	1971
1972	---	6.85 B ON APR 15	0B ON MAR 1	4 900	1972
1973	---	1.10 B ON MAR 22	0B ON MAR 1	907	1973
1974	---	61.6 E ON MAY 21 *	0B ON MAR 1	35 500	1974
1975	---	4.96 ON APR 29	0B ON MAR 1	3 340	1975
1976	---	11.7 B ON APR 6	0B ON MAR 1	7 110	1976
1977	---	0.340B ON APR 13	0B ON MAR 1	108	1977
1978	---	6.74 B ON APR 10	0B ON MAR 1	4 750	1978
1979	---	23.4 ON APR 23	0B ON MAR 1	35 800	1979
1980	---	1.08 B ON APR 8	0B ON MAR 1	843	1980
1981	---	0.011B ON MAR 1	0B ON MAR 15	7.52	1981
1982	1.85B AT 00:00 CST ON APR 13 *	1.28 B ON APR 13	0B ON MAR 1	851	1982
MEAN				7 650 R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1980

EPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.031	0.380	0.623	---	---	---	---	---	---	---	---	1961
1963	---	---	0.076	0.171	0.382	0.806	0.180	0.042	0.024	0.034	---	---	0.213	1963
1964	---	---	0.014	0.154	0.532	0.177	0.119	0.026	0.003	0.033	---	---	0.142	1964
1965	---	---	0.014	1.03	1.21	1.04	0.090	0.066	0.315	0.229	---	---	0.495	1965
1966	---	---	0.056	1.80	1.31	0.315	0.086	0.029	0.013	0.016	---	---	0.450	1966
1967	---	---	0.022	0.622	0.541	0.077	0.025	0.009	0.005	0.014	---	---	0.164	1967
1968	---	---	0.024	0.024	0.167	0.074	0.023	0.102	0.364	0.284	---	---	0.132	1968
1969	---	---	0.019	1.49	1.48	0.320	1.30	0.252	0.045	0.046	---	---	0.618	1969
1970	---	---	0.040	0.633	2.76	0.889	0.311	0.072	0.035	0.055	---	---	0.601	1970
1971	---	---	0.018	0.507	0.777	0.766	0.724	0.143	0.006	0.077	---	---	0.377	1971
1972	---	---	0.048	0.638	0.695	0.437	0.188	0.151	0.096	0.094	---	---	0.292	1972
1973	---	---	0.030	0.075	0.256	0.201	0.082	0.024	0.037	0.028	---	---	0.091	1973
1974	---	---	0	0.657	2.88	0.847	0.043	0.019	0.022	0.028	---	---	0.563	1974
1975	---	---	0.022	0.150	0.950	0.580	0.138	0.043	0.072	0.046	---	---	0.249	1975
1976	---	---	0.034	3.20	0.999	0.204	0.045	0.017	0.012	0.017	---	---	0.559	1976
1977	---	---	0.038	0.024	0.021	0.013	0.020	0.004	0	0	---	---	0.015	1977
1978	---	---	0.002	1.38	0.769	0.634	0.477	0.004	0.023	0.014	---	---	0.409	1978
1979	---	---	0.028	0.888	3.16	0.641	0.066	0.024	0.016	0.006	---	---	0.605	1979
1980	---	---	0.014	0.063	0.071	0.035	0.020	0.098	0.025	0.046	---	---	0.047	1980
1981	---	---	0.043	0.040	0.009	0.008	0.001	0.001	0.001	0.001	---	---	0.013	1981
1982	---	---	0	0.451	0.166	0.128	0.057	0.004	0.003	0.011	---	---	0.101	1982
MEAN	---	---	0.027	0.685	0.941	0.410	0.199	0.056	0.060	0.054	---	---	0.307	MEAN

LOCATION - LAT 49 44 28 N DRAINAGE AREA, 399 km^2
LONG 99 19 50 W NATURAL FLOW

EPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	---	---	1961
1963	---	1.23 ON JUN 24	0 B ON MAR 1 *	4 500	1963
1964	---	0.968 ON MAY 11	0.014B ON MAR 1	3 000	1964
1965	---	2.40 ON APR 20	0.014B ON MAR 1	10 500	1965
1966	---	3.60 ON APR 8	0.006 ON SEP 18	9 520	1966
1967	---	1.52 ON APR 26	0.003 ON SEP 2	3 460	1967
1968	---	0.532 ON SEP 8	0.003 ON JUL 11	2 800	1968
1969	---	3.79 ON APR 19	0.014B ON MAR 1	13 100	1969
1970	---	6.00 ON MAY 1	0.021 ON SEP 20	12 700	1970
1971	---	1.76 ON APR 21	0 ON APR 19	7 970	1971
1972	---	1.39 ON APR 23	0.014 ON SEP 11	6 180	1972
1973	---	0.314 ON MAY 9	0.005 ON JUL 23	1 930	1973
1974	---	3.71 ON MAY 21	0 B ON MAR 1	11 900	1974
1975	---	1.35 ON MAY 7	0.001 ON AUG 6	5 260	1975
1976	---	5.72 ON APR 18	0.006 ON AUG 13	11 800	1976
1977	---	0.0488 ON MAR 29	0 ON SEP 10	317	1977
1978	---	2.74 ON APR 14	0 B ON MAR 1	8 660	1978
1979	---	6.40 ON MAY 1 *	0.005 ON OCT 26	12 800	1979
1980	---	0.602 ON AUG 21	0 ON APR 22	980	1980
1981	---	0.101A ON APR 6	0 B ON OCT 22	277	1981
1982	---	1.09 A ON APR 20	0 B ON MAR 1	2 150	1982
				6 490	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	220	228	211	220	209	186	---	1912
1913	162	164	169	196	207	229	252	236	220	197	188	183	201	1913
1914	160	140	151	160	183	184	185	140	130	123	113	102	150	1914
1915	95.0	92.7	84.3	83.2	76.0	83.9	79.7	70.3	57.7	60.4	54.2	50.1	73.9	1915
1916	43.8	44.0	45.3	30.9	58.1	67.3	80.6	77.2	59.9	64.3	64.3	56.9	60.1	1916
1917	54.1	54.6	61.6	66.7	66.9	69.7	81.1	73.2	70.7	66.3	66.8	58.3	65.9	1917
1918	50.0	59.3	63.7	66.3	67.7	70.7	79.1	84.1	71.0	72.9	70.0 R	65.1	69.8 R	1918
1919	62.7	59.6	55.7	59.7	70.8	71.8	70.3	54.0	46.5	34.6	---	---	---	1919
1920	---	---	---	---	44.3	50.3	44.9	39.0	33.4	---	---	---	---	1920
1955	---	---	---	---	---	---	---	---	---	207	193	200	---	1955
1956	192	190	181	173	189	210	199	178	166	156	147	151	178	1956
1957	149	141	133	135	141	142	149	126	116	108	90.7	94.0	127	1957
1958	90.1	86.9	82.9	80.0	75.4	61.5	60.6	44.2	38.5	13.6	20.0	11.6	55.2	1958
1959	11.5	7.87	9.11	12.4	16.5	21.2	39.4	44.5	16.1	12.0	49.2	42.8	23.7	1959
1960	7.57	53.1	58.5	62.5	79.7	83.8	71.5	61.8	48.4	36.1	21.4	0	48.6	1960
1961	0	0	0	0	0	0	38.7	16.0	0.650	0	55.7	3.23	9.56	1961
1962	3.20	3.41	2.80	2.41	1.99	1.79	1.88	2.49	2.86	2.09	1.76	1.68	2.36	1962
1963	1.59	1.59	1.71	1.76	1.80	7.58	68.8	39.6	2.88	2.13	1.78	2.04	11.3	1963
1964	2.15	2.04	2.08	2.01	1.89	1.90	1.80	1.84	1.60	1.35	1.22	1.07	1.75	1964
1965	1.15	1.24	1.30	1.77	2.18	3.01	2.75	2.49	2.10	1.41	2.16	1.97	1.97	1965
1966	2.20	2.08	2.61	3.30	8.74	112	110	87.5	47.6	20.1	4.45	5.70	34.1	1966
1967	6.24	6.54	45.2	115	234	250	190	152	31.0	4.34	3.58	40.3	90.7	1967
1968	80.3	97.1	95.7	61.9	42.0	101	111	83.4	79.5	83.1	96.0	133	89.3	1968
1969	80.2	80.2	80.8	96.5	105	80.1	61.6	47.4	41.4	18.2	13.1	7.33	61.8	1969
1970	6.85	7.33	34.5	67.3	122	255	213	165	111	50.7	2.22	0	86.7	1970
1971	0	5.52	84.0	184	239	226	183	94.7	54.3	54.2	72.1	91.7	108	1971
1972	80.8	83.6	80.8	102	148	228	128	26.1	2.49	8.33	49.0	49.0	82.6	1972
1973	46.5	47.9	7.73	6.79	7.49	58.9	151	64.3	53.6	64.0	68.3	74.9	54.4	1973
1974	72.6	74.5	72.8	177	297	321	272	200	150	149	131	130	172	1974
1975	114	77.0	71.7	99.8	163	242	207	121	173	209	196	171	154	1975
1976	153	139	134	204	318	317	278	210	104	20.7	7.58	3.90	158	1976
1977	4.29	4.69	4.58	3.40	6.03	101	189	24.6	15.4	79.2	82.6	82.6	50.2	1977
1978	92.7	89.9	92.5	87.0	56.0	62.7	44.7	20.9	18.0	19.2	26.7	23.7	52.4	1978
1979	25.0	25.8	37.6	140	306	330	301	240	105	117	112	105	155	1979
1980	109	108	105	90.9	56.3	23.8	9.14	10.4	60.1	59.6	54.2	53.1	62.7	1980
1981	51.4 R	50.2 R	30.2	10.9	16.6	15.1	23.5	21.4	19.2	18.4	17.0	16.2	24.7 R	1981
1982	15.0	15.8	16.8	17.9	19.1	19.3	18.8	20.4	14.9	22.3	9.76	8.42	16.6	1982
MEAN	60.6 R	59.8 R	62.2	77.6	97.9	118	117	86.6	66.8	66.0	65.5 R	63.2	76.8	MEAN

LOCATION - LAT 51 36 00 N DRAINAGE AREA, 79 300 km²
LONG 98 42 15 W REGULATED SINCE 1934

R - REVISED SINCE JAN 1980

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	326 ON SEP 9	142 B ON JAN 20	6 390 000	1913
1914	---	274 ON MAY 20	90.9 B ON DEC 24	4 740 000	1914
1915	---	112 B ON JAN 5	30.8 ON SEP 16	2 330 000	1915
1916	---	118 ON JUL 19	30.0 ON SEP 14	1 900 000	1916
1917	---	102 ON JUL 25	30.5 ON JUN 15	2 080 000	1917
1918	---	102 ON JUN 20	30.5 ON NOV 9	2 200 000R	1918
1919	---	103 ON JUL 8	27.1 ON OCT 18	---	1919
1920	---	---	---	---	1920
1955	---	---	---	---	1955
1956	---	227 ON JUN 7	135 ON OCT 9	5 610 000	1956
1957	---	163 ON JUL 24	76.5 ON NOV 23	4 000 000	1957
1958	---	93.4 ON JAN 5	7.93 ON OCT 10	1 740 000	1958
1959	---	70.8 ON JUL 24	3.91 ON OCT 9	747 000	1959
1960	---	96.6 ON JUN 27	0 ON NOV 26 *	1 540 000	1960
1961	---	151 ON NOV 22	0 ON JAN 1	301 000	1961
1962	---	6.46 ON AUG 27	1.19 ON JUN 29	74 500	1962
1963	---	109 E ON JUL 10	1.51 ON NOV 13	355 000	1963
1964	---	2.350 ON JAN 20	1.06 B ON DEC 11	55 200	1964
1965	---	4.11 ON JUN 19	0.130 ON OCT 9	62 100	1965
1966	147 AT 20:10 CST ON JUL 4	130 ON JUN 11	1.22 B ON FEB 13	1 070 000	1966
1967	362 AT 19:20 CST ON JUN 3	323 ON JUN 3	3.26 ON NOV 12	2 860 000	1967
1968	231 B AT 00:00 CST ON DEC 6	221 B ON DEC 6	5.41 ON MAY 10	2 820 000	1968
1969	138 AT 13:57 CST ON MAY 6	131 ON MAY 6	5.32 ON OCT 9	1 950 000	1969
1970	305 AT 13:27 CST ON JUL 1 *	334 ON JUL 1	0 B ON NOV 15	2 730 000	1970
1971	320 AT 09:04 CST ON MAY 20	280 ON MAY 20	0 B ON JAN 1	3 400 000	1971
1972	317 AT 01:43 CST ON JUN 14	250 ON JUN 13	0.861 ON OCT 10	2 610 000	1972
1973	225 AT 10:10 CST ON JUL 22	204 ON JUL 23	4.96 ON MAY 13	1 720 000	1973
1974	360 AT 10:10 CST ON JUN 26	351 ON JUN 6 *	49.3 ON NOV 14	5 420 000	1974
1975	351 AT 14:09 CST ON JUN 30	309 ON JUN 27	54.1 ON AUG 17	4 860 000	1975
1976	360 AT 10:45 CST ON MAY 10	345 ON MAY 10	3.05 B ON DEC 7	4 980 000	1976
1977	270 AT 10:41 CST ON JUN 25	240 ON JUN 22	2.25 ON MAY 2	1 580 000	1977
1978	---	99.1 B ON JAN 8	8.30 ON OCT 5	1 650 000	1978
1979	---	351 ON JUN 6	11.0 ON SEP 6	4 880 000	1979
1980	116 AT 20:42 CST ON JAN 15	116 B ON JAN 12	7.05 ON AUG 26	1 980 000	1980
1981	66.0 AT 06:56 CST ON JAN 3	52.0 BR ON JAN 1	8.93 ON JUN 15	779 000R	1981
1982	107 AT 17:32 CST ON OCT 13	92.9 ON OCT 13	5.72 E ON NOV 4	524 000	1982
				2 420 000R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1980

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05SB005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.063	0.137	0.017	0.006	0.012	0.026	0.027	0.310	---	---	0.075	1968
1969	---	---	0	1.18	1.29	0.630	0.061	0.024	0	0.453	---	---	0.454	1969
1970	---	---	0	0.581	0.435	0.471	0.351	0	0	0.217	---	---	0.203	1970
1971	---	---	0	0.282	0.062	0.009	0.007	0	0	0.056	---	---	0.051	1971
1972	---	---	0	0.460	0.024	0	0	0	0.002	0	---	---	0.060	1972
1973	---	---	0.099	0.004	0	0.171	0	0.070	0.419	1.03	---	---	0.224	1973
1974	---	---	0	5.82	3.75	1.92	1.59	0.838	0.902	1.57	---	---	2.04	1974
1975	---	---	0	0.521	0.437	0.272	0.167	0.343	0.402	0.608	---	---	0.343	1975
1976	---	---	0	3.15	1.90	1.06	0.602	0.228	0.049	0	---	---	0.868	1976
1977	---	---	0.002	0.044	0.002	0.246	0.313	0.244	1.07	0.689	---	---	0.324	1977
1978	---	---	0	2.87	1.51	1.11	0.847	0.506	0.444	0.236	---	---	0.933	1978
1979	---	---	0	1.75	2.74	2.02	1.02	0.567	0.416	0.299	---	---	1.10	1979
1980	---	---	0	0.634	0.543	0.055	0.160	0.011	0.022	0.025	---	---	0.181	1980
1981	---	---	0.097	0.021	0.003	0.018	0.018	0.201	0.526	0.079	---	---	0.119	1981
1982	---	---	0.143	1.63	0.894	0.546	0.234	0.133	0.103	1.02	---	---	0.586	1982
MEAN	---	---	0.027	1.27	0.907	0.569	0.359	0.213	0.292	0.439	---	---	0.507	MEAN

LOCATION - LAT 50 42 11 N DRAINAGE AREA, 632 km²
LONG 97 01 03 W REGULATED SINCE 1965

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1979

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05SB005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	0.895 ON OCT 10	0B ON MAR 1 *	1 580	1968
1969	---	8.86 ON APR 12	0B ON MAR 1	9 590	1969
1970	---	2.08 ON APR 18	0B ON MAR 1	5 150	1970
1971	---	1.83 ON APR 19	0B ON MAR 1	1 090	1971
1972	---	3.26 B ON APR 15	0B ON MAR 1	1 260	1972
1973	---	4.36 ON OCT 12	0B ON MAR 1	4 760	1973
1974	---	16.9 ON APR 20 *	0B ON MAR 1	43 100	1974
1975	---	1.91 B ON APR 21	0B ON MAR 1	7 260	1975
1976	---	5.97 ON APR 9	0B ON MAR 1	18 400	1976
1977	---	5.64 ON SEP 10	0B ON MAR 1	6 860	1977
1978	---	5.64 ON APR 18	0B ON MAR 1	19 800	1978
1979	---	6.58 ON APR 21	0B ON MAR 1	23 200	1979
1980	---	1.86 ON APR 11	0B ON MAR 1	3 820	1980
1981	---	2.78 A ON SEP 10	0B ON MAR 1	2 530	1981
1982	---	4.74 B ON APR 15	0B ON MAR 1	12 400	1982
MEAN				10 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISH LAKE DRAIN NEAR MELED - STATION NO. 05SB004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.132	1.16	0.502	0.079	0.024	0.001	0.435	---	---	0.293	1969
1970	---	---	0	0.004	0.329	0.567	0.564	0.002	0	0.243	---	---	0.214	1970
MEAN	---	---	0	0.068	0.745	0.535	0.322	0.013	0.001	0.339	---	---	0.254	MEAN

LOCATION - LAT 50 44 46 N DRAINAGE AREA, 526 km²
LONG 97 19 06 W REGULATED

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1979

FISH LAKE DRAIN NEAR MELED - STATION NO. 05SB004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	2.21E ON MAY 15 *	0B ON MAR 1 *	6 200	1969
1970	---	1.33 ON JUN 26	0B ON MAR 1	4 530	1970
MEAN				5 370	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	1.58	0.917	0.388	0.223	0.158	0.191	0.261	0.242	0.129	---	1961
1962	0.061	0.055	0.055	3.88	0.791	0.764	0.347	0.389	0.362	0.421	0.369	0.259	0.643	1962
1963	0.069	0.021	0.381	17.9	4.10	18.9	3.06	1.31	0.891	0.495	0.418	0.290	3.96	1963
1964	0.238	0.213	0.231	4.00	4.15	1.02	0.771	0.713	0.624	0.651	0.556	0.350	1.13	1964
1965	0.276	0.164	0.156	8.10	1.85	2.38	1.02	0.501	0.489	0.475	0.436	0.392	1.35	1965
1966	0.317	0.277	0.311	7.59	5.57	1.06	0.509	0.306	0.236	0.282	0.246	0.241	1.41	1966
1967	0.217	0.185	0.236	9.18	2.50	0.804	0.491	0.390	0.232	0.363	0.317	0.274	1.26	1967
1968	0.163	0.175	0.642	4.07	1.84	1.80	0.970	0.596	0.889	0.664	0.541	0.310	1.05	1968
1969	0.257	0.300	0.296	8.17	1.10	1.30	0.630	4.61	1.48	2.39	1.01	0.470	1.83	1969
1970	0.355	0.315	0.291	12.3	7.98	1.93	0.745	0.330	0.353	0.334	0.318	0.217	2.12	1970
1971	0.153	0.088	0.169	5.93	0.840	0.462	0.337	0.233	0.239	0.292	0.262	0.216	0.764	1971
1972	0.141	0.100	0.139	11.2	1.73	0.546	0.337	0.300	0.219	0.244	0.193	0.105	1.26	1972
1973	0.057	0.067	1.03	0.517	0.349	3.14	0.409	0.288	0.532	1.72	0.709	0.432	0.771	1973
1974	0.311	0.371	0.369	32.1	28.1	6.32	0.891	0.389	0.390	0.365	0.361	0.274	5.86	1974
1975	0.201	0.186	0.233	5.59	1.11	0.775	0.552	14.1	16.1	6.35	2.34	0.888	4.04	1975
1976	0.652	0.540	0.481	46.8	6.01	1.27	0.593	0.344	0.239	0.251	0.235	0.110	4.74	1976
1977	0.079	0.075	0.241	0.720	0.552	0.660	0.778	0.280	0.495	0.596	0.471	0.319	0.440	1977
1978	0.241	0.211	0.264	12.5	1.87	1.48	0.943	0.432	0.462	0.348	0.347	0.304	1.61	1978
1979	C.195	0.188	0.228	28.9	19.1	4.46	0.823	0.490	0.418	0.416	0.393	0.273	4.65	1979
1980	0.211	0.249	0.223	5.12	0.486	0.252	0.250	0.908	1.13	0.940	0.770	0.503	0.915	1980
1981	0.383	0.473	1.94	1.75	1.09	2.23	0.550	0.770	1.24	2.92	3.86	0.714	1.49	1981
1982	0.399	0.312	0.601	16.7	3.68	1.68	1.52	0.695	0.483	0.819	0.816	0.579	2.35	1982
MEAN	0.237	0.217	0.406	11.1	4.35	2.44	0.761	1.30	1.26	0.982	0.691	0.348	2.08	MEAN

LOCATION - LAT 51 21 20 N   DRAINAGE AREA, 1 480 km^2
LONG 97 30 50 W   NATURAL FLOW

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	4.53E ON APR 20	---	---	1961
1962	---	26.7 ON APR 22	0.051 ON MAR 2	20 300	1962
1963	---	70.2 B ON APR 9	0.006B ON MAR 5 *	125 000	1963
1964	---	15.9 ON APR 16	0.167 ON FEB 27	35 600	1964
1965	---	54.1 ON APR 15	0.133 ON MAR 7	42 500	1965
1966	---	34.8 ON APR 4	0.193B ON NOV 15	44 500	1966
1967	---	46.2 ON APR 16	0.147 ON SEP 24	39 700	1967
1968	---	10.4 ON APR 9	0.079B ON MAR 4	33 200	1968
1969	---	43.9 B ON APR 13	0.227B ON JAN 12	57 800	1969
1970	---	38.5 ON APR 20	0.153B ON NOV 28	66 800	1970
1971	---	26.4 B ON APR 12	0.074B ON FEB 17	24 100	1971
1972	---	48.4 B ON APR 19	0.062B ON DEC 30	39 800	1972
1973	10.4 AT 21:30 CST ON JUN 18	9.66 ON JUN 19	0.048B ON JAN 8	24 300	1973
1974	106 AT 18:35 CST ON APR 22	105 ON APR 22	0.207 ON JAN 16	185 000	1974
1975	42.8 AT 06:21 CST ON AUG 27	42.2 ON AUG 27	0.150 ON JAN 24	128 000	1975
1976	86.7 AT 20:43 CST ON APR 9	85.2 ON APR 9	0.065 ON DEC 9	149 000	1976
1977	1.75 AT 10:57 CST ON MAY 20	1.67 ON MAY 20	0.054 ON JAN 22	13 900	1977
1978	63.4 AT 10:15 CST ON APR 18	58.9 ON APR 18	0.178B ON FEB 7	50 800	1978
1979	121 AT 14:00 CST ON APR 23 *	119 ON APR 23 *	0.144B ON JAN 17	147 000	1979
1980	20.1 AT 06:00 CST ON APR 11	14.6 ON APR 11	0.153 ON AUG 3	28 900	1980
1981	9.06 AT 19:14 CST ON NOV 1	8.77B ON MAR 30	0.205B ON FEB 13	47 100	1981
1982	---	49.7 E ON APR 17	0.193B ON FEB 18	74 000	1982
				65 600	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

FISHING RIVER NEAR FORK RIVER - STATION NO. 05LJ015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	0	5.75	4.02	0.013	0.670	0.194	0.039	0	---	---	1.33	1948
1949	---	---	0	0.662	0.056	0.123	0.092	0.016	0	0	---	---	0.117	1949
1950	---	---	0	1.12	0.277	0.385	0.303	0.095	0	0.004	---	---	0.270	1950
1951	---	---	0	1.58	0.828	0.073	0.104	0.209	0.232	0.273	---	---	0.410	1951
1952	---	---	0	2.25	0.170	0.052	0.005	0	0	0	---	---	0.303	1952
1953	---	---	0	1.50	0.649	6.38	1.19	0.274	0.103	0.181	---	---	1.27	1953
1954	---	---	0	2.61	1.85	6.19	1.47	0.013	0.414	0.684	0.127	---	1.64	1954
1955	---	---	0	3.21	2.46	0.963	0.068	0	0	0	---	---	0.831	1955
1956	---	---	0	0.327	3.23	0.488	0.373	0.047	0.015	0.008	---	---	0.565	1956
1957	---	---	0.029	1.71	0.640	0.075	0.005	0	0	0	---	---	0.304	1957
1958	---	---	0.027	0.071	0.006	0.001	0	0	0	0	---	---	0.013	1958
1959	---	---	0.014	0.122	0.055	0.068	0.058	0	0	0	---	---	0.039	1959
1960	---	---	0	1.32	0.473	0.074	0.002	0	0	0	---	---	0.231	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.285	0.086	0.073	0	0	0	0	---	---	0.055	1962
1963	---	---	0.182	0.444	0.101	0.158	0.017	0.001	0	0	---	---	0.112	1963
1964	---	---	0	0.047	0.031	0	0	0	0	0	---	---	0.010	1964
1965	---	---	0	0.074	0.061	0.686	0.288	0.065	0.432	0.165	---	---	0.146	1965
1966	---	---	0.560	1.82	0.848	0.236	0.157	0.004	0.001	0.005	---	---	0.451	1966
1967	---	---	0.003	0.533	1.36	0.056	0	0	0	0	---	---	0.245	1967
1968	---	---	0.190	0.008	0.001	0	0	0	0	0	---	---	0.025	1968
1969	---	---	0	0.962	0.078	0.032	0.216	0.033	0.117	0.003	---	---	0.178	1969
1970	---	---	0.001	2.30	1.79	0.847	0.932	0.074	0.001	0.002	---	---	0.740	1970
1971	---	---	0.002	2.11	0.047	0.414	0.004	0	0	0.002	---	---	0.316	1971
1972	---	---	0.005	1.44	0.356	0.003	0	0	0	0	---	---	0.222	1972
1973	---	---	0	0.001	0.001	0.005	0.001	0	0	0	---	---	0.001	1973
1974	---	---	0	2.83	5.86	0.470	0.005	0	0	0	---	---	1.15	1974
1975	---	---	0	2.01	0.775	0.979	0	0	0.227	0.062	---	---	0.500	1975
1976	---	---	0.001	3.60	0.034	7.16	0.097	0	0	0	---	---	1.33	1976
1977	---	---	0.003	0.011	0.003	0.001	0	0.002	0.040	0.059	---	---	0.015	1977
1978	---	---	0.006	0.592	0.098	0.033	0.036	0	0.001	0.003	---	---	0.095	1978
1979	---	---	0	4.42	2.90	0.444	0.013	0.006	0	0	---	---	0.966	1979
1980	---	---	0	0.656	0.004	0	0	0.003	0	0.001	---	---	0.081	1980
1981	---	---	0.002	0.006	0.031	0.157	0.130	0	0	0.005	---	---	0.041	1981
1982	---	---	0.202	0.473	0.102	0.027	0.089	0.022	0	0.025	---	---	0.117	1982
MEAN	---	---	0.035	1.34	0.837	0.745	0.181	0.030	0.046	0.042	0.127	---	0.403	MEAN

LOCATION - LAT 51 26 57 N DRAINAGE AREA, 262 km²
LONG 100 02 26 W NATURAL FLOW

FISHING RIVER NEAR FORK RIVER - STATION NO. 05LJ015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	29.7 ON APR 24	0B ON MAR 1 *	28 100	1948
1949	---	2.58 ON APR 4	0B ON MAR 1	2 480	1949
1950	---	8.41 ON APR 20	0B ON MAR 1	5 710	1950
1951	---	5.30 ON APR 9	0B ON MAR 1	8 670	1951
1952	---	15.1 B ON APR 7	0B ON MAR 1	6 420	1952
1953	---	28.6 ON JUN 5	0B ON MAR 1	26 800	1953
1954	---	20.2 B ON APR 17	0B ON MAR 1	34 700	1954
1955	---	13.5 ON APR 6	0B ON MAR 1	17 600	1955
1956	---	7.48 ON MAY 1	0B ON MAR 1	12 000	1956
1957	---	4.22 ON APR 29	0B ON MAR 1	6 440	1957
1958	---	0.595B ON MAR 31	0B ON MAR 1	276	1958
1959	---	0.368 ON APR 5	0B ON MAR 1	830	1959
1960	---	4.11 ON APR 18	0B ON MAR 1	4 900	1960
1961	---	0 B ON MAR 1	0B ON MAR 1	0	1961
1962	---	2.62 ON APR 19	0B ON MAR 1	1 160	1962
1963	---	1.56 B ON APR 8	0B ON MAR 1	2 370	1963
1964	---	0.142 ON APR 12	0 ON MAR 1	205	1964
1965	---	2.83 ON SEP 24	0B ON MAR 1	3 090	1965
1966	---	5.83 ON APR 1	0 ON JUL 24	9 540	1966
1967	---	6.17 B ON MAY 1	0B ON MAR 1	5 180	1967
1968	---	1.16 B ON MAR 27	0B ON MAR 1	533	1968
1969	---	6.20 ON APR 14	0B ON MAR 1	3 760	1969
1970	---	7.50 ON APR 27	0B ON MAR 1	15 700	1970
1971	---	7.67 B ON APR 12	0 ON JUL 24	6 690	1971
1972	---	5.15 B ON APR 19	0 ON JUN 15	4 700	1972
1973	---	0.045 ON JUN 28	0B ON MAR 1	21.6	1973
1974	---	18.2 ON APR 20	0B ON MAR 1	24 300	1974
1975	---	8.41 ON APR 28	0B ON MAR 1	10 600	1975
1976	---	52.4 ON JUN 15 *	0B ON MAR 1	28 300	1976
1977	0.402 AT 11:35 CST ON SEP 28	0.328 ON SEP 28	0B ON MAR 1	311	1977
1978	---	2.21 B ON APR 10	0B ON MAR 1	2 000	1978
1979	24.4 AT 00:49 CST ON APR 24 *	20.9 ON APR 24	0B ON MAR 1	20 500	1979
1980	4.14 B AT 13:35 CST ON APR 7	3.79 B ON APR 7	0B ON MAR 1	1 720	1980
1981	3.51 AT 00:56 CST ON JUN 24	1.90 ON JUN 24	0B ON MAR 1	873	1981
1982	---	3.17 B ON APR 15	0B ON MAR 1	2 480	1982
MEAN				8 540	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	---	---	---	---	---	---	---	2.64	1.97	1.47	---	1977
1976	1.18	0.890	0.723	0.935	5.46	5.92	2.41	5.60	7.90	10.1	6.92	3.38	4.30	1978
1979	2.70	2.46	2.37	2.38	3.69	7.55	3.93	2.49	2.47	3.27	3.07	2.77	3.26	1979
1980	1.77	1.18	1.04	1.83	3.27	1.41	0.951	1.22	7.52	11.1	10.2	6.02	3.96	1980
1981	2.85	2.04	1.69	1.40	7.49	5.42	1.94	0.814	0.410	0.398	0.516R	0.709R	2.14R	1981
1982	0.936	0.961	0.963	1.17	10.7	10.9	5.79	4.80	5.83	6.63	5.16	3.65	4.81	1982
MEAN	1.89	1.51	1.36	1.54	6.12	6.24	3.00	2.98	4.83	5.69	4.64 R	3.00 R	3.69	MEAN

LOCATION - LAT 55 55 50 N DRAINAGE AREA, 598 km²
LONG 98 53 10 W NATURAL FLOW

R - REVISED SINCE JAN 1980

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1977	---	---	---	---	1977
1978	11.4 AT 16:00 CST ON OCT 11	11.1 ON OCT 11	0.697 ON MAR 17	136 000	1978
1979	9.19 AT 12:12 CST ON JUN 7	9.13 ON JUN 7	2.25 ON SEP 15	103 000	1979
1980	---	11.7 E ON OCT 22	0.788E ON AUG 21	125 000	1980
1981	12.0 AT 21:00 CST ON MAY 21	11.6 ON MAY 20	0.259 ON OCT 3 *	67 700R	1981
1982	13.0 AT 23:59 CST ON JUN 10 *	12.8 ON JUN 11 *	0.802 ON APR 4	152 000	1982
				117 000R	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1980

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.58	4.31 R	7.61 R	1.25 R	0.750	2.44	2.44	---	---	---	1954
1955	---	---	---	3.32	3.47	1.67	0.163	0	0	0	---	---	---	1955
1956	---	---	0.028	0.875	3.92	1.43	0.774	0.031	0.376	0.196	---	---	0.955	1956
1957	---	---	0.028	2.83	1.89	0.542	0.019	0	0.001	0	---	---	0.658	1957
1958	---	---	0.062	0.346	0.094	0.033	0.142	0.095	0.266	0.088	---	---	0.140	1958
1959	---	---	0.169	0.688	0.700	2.04	0.606	0.015	0.030	0.417	---	---	0.579	1959
1960	---	---	0	3.77	3.27	0.967	0.093	0.155	0.041	0	---	---	1.03	1960
1961	---	---	0.008	0.033	0.028	0.007	0	0	0	0	---	---	0.009	1961
1962	---	---	0	0.295	0.041	0.250	0.093	0	0	0	---	---	0.084	1962
1963	---	---	0.419	0.774	1.30	1.04	0.067	0	0	0	---	---	0.449	1963
1964	---	---	0	0.204	0.951	0.004	0	0	0	0	---	---	0.146	1964
1965	---	---	0	0.349	1.52	0.759	0.059	0.319	0.701	0.328	---	---	0.503	1965
1966	---	---	0.132	2.75	2.13	1.65	0.459	0.028	0	0	---	---	0.886	1966
1967	---	---	0	0.924	2.67	0.305	0.010	0.001	0	0	---	---	0.489	1967
1968	---	---	0.083	0.085	0.085	0.033	0.007	0.111	0.054	0.011	---	---	0.059	1968
1969	---	---	0	1.88	0.692	0.526	1.10	0.167	0.023	0.588	---	---	0.620	1969
1970	---	---	0.005	3.38	5.41	2.28	2.10	0.444	0.050	0.335	---	---	1.75	1970
1971	---	---	0.024	3.89	0.597	1.49	0.162	0.022	0	0.059	---	---	0.768	1971
1972	---	---	0	2.34	1.61	0.113	0.002	0	0	0	---	---	0.505	1972
1973	---	---	0.004	0.036	0.066	0.777	0.070	0.005	0.627	0.325	---	---	0.236	1973
1974	---	---	0	4.73	7.73	1.50	0.034	0	0.016	0.166	---	---	1.77	1974
1975	---	---	0	3.08	3.64	3.26	0.163	0.011	0.575	0.417	---	---	1.38	1975
1976	---	---	0.013	4.89	0.894	7.70	0.617	0.011	0.001	0	---	---	1.74	1976
1977	---	---	0	0.090	0.248	0.023	0.003	0.003	0.039	0.107	---	---	0.064	1977
1978	---	---	0.038	0.527	0.522	0.187	0.011	0.001	0.027	0.029	---	---	0.167	1978
1979	---	---	0	2.86	4.40	1.45	0.072	0.008	0	0.007	---	---	1.10	1979
1980	---	---	0	1.21	0.147	0.002	0.002	0.148	0.022	0.022	---	---	0.191	1980
1981	---	---	0.013	0.080	0.178	0.364	0.319	0.213	0.078	0.124	---	---	0.171	1981
1982	---	---	0.081	0.615	0.330	0.072	0.892	0.089	0.011	0.138	---	---	0.279	1982
MEAN	---	---	0.041	1.67	1.82 R	1.31 R	0.320R	0.091	0.185	0.200	---	---	0.620	MEAN

LOCATION - LAT 51 31 54 N DRAINAGE AREA, 258 km²
LONG 100 25 19 W REGULATED

R - REVISED SINCE JAN 1980

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	17.2 R ON JUN 2	0B ON APR 1 *	---	1954
1955	---	16.5 ON MAY 4	0 ON JUL 23	---	1955
1956	---	7.28 ON MAY 9	0 ON AUG 4	20 200	1956
1957	---	9.40 ON APR 25	0 ON JUL 8	13 900	1957
1958	---	1.13 ON MAR 31	0 ON MAR 1	2 960	1958
1959	---	7.84 ON JUN 28	0 ON MAR 1	12 300	1959
1960	---	12.2 ON APR 11	0B ON MAR 1	21 800	1960
1961	---	0.042B ON APR 20	0B ON MAR 1	200	1961
1962	---	4.11 ON APR 18	0 ON MAR 1	1 770	1962
1963	---	4.02 ON APR 9	0 ON MAR 1	9 500	1963
1964	---	2.20 ON MAY 8	0 ON MAR 1	3 090	1964
1965	---	2.74 ON AUG 2	0 ON MAR 1	10 600	1965
1966	---	12.9 B ON APR 1	0B ON MAR 1	18 800	1966
1967	---	8.78 ON APR 27	0B ON MAR 1	10 400	1967
1968	---	0.515 ON MAR 27	0E ON MAR 1	1 240	1968
1969	---	7.93 ON APR 13	0B ON MAR 1	13 100	1969
1970	---	14.5 ON APR 26	0 ON SEP 11	37 000	1970
1971	---	18.5 B ON APR 11	0 ON AUG 27	16 300	1971
1972	---	8.55 B ON APR 16	0B ON MAR 1	10 700	1972
1973	---	1.62 ON JUN 20	0B ON MAR 1	4 990	1973
1974	---	43.6 B ON APR 19	0B ON MAR 1	37 500	1974
1975	---	17.6 ON JUN 10	0B ON MAR 1	29 300	1975
1976	---	54.7 ON JUN 13 *	0 ON AUG 24	36 700	1976
1977	---	0.674 ON MAY 6	0B ON MAR 1	1 360	1977
1978	---	0.960 ON MAY 9	0 ON AUG 8	3 530	1978
1979	---	17.9 B ON APR 23	0B ON MAR 1	23 200	1979
1980	---	3.98 B ON APR 6	0B ON MAR 1	4 040	1980
1981	---	2.86 ON JUL 2	0B ON MAR 1	3 620	1981
1982	---	5.14 ON JUL 17	0B ON MAR 1	5 910	1982
				13 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 05MF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	0.019	5.54	0.787	0.248	0.103	0.031	0	0	0	---	0.828	1956
1957	---	---	0.236	0.355	0.143	0.101	0.015	0	0.006	0	---	---	0.106	1957
1958	---	---	0.508	1.63	0.074	0.002	0	0	0	0	---	---	0.273	1958
1959	---	---	0.073	0.032	0	0	0	0	0	0	---	---	0.013	1959
1960	---	---	0.042	1.90	0.128	0.025	0.001	0	0	0	---	---	0.257	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0	0	0	0	0	0	0	0	---	---	0	1963
1964	---	---	0	1.87	1.86	0.135	0.105	0.016	0.013	0.037	---	---	0.502	1964
1965	---	---	0	1.19	0.291	0.185	0.072	0.018	0.040	0.059	---	---	0.229	1965
1966	---	---	0.424	1.88	0.441	0.282	0.097	0.005	0.031	0.006	---	---	0.391	1966
1967	---	---	0.027	0.111	0.103	0.012	0	0	0	0	---	---	0.032	1967
1968	---	---	0.018	0.016	0.007	0	0.001	0.004	0.013	0.012	---	---	0.009	1968
1969	---	---	0	11.9	0.473	0.043	1.04	0.255	0.172	0.128	---	---	1.72	1969
1970	---	---	0	3.13	4.37	0.258	0.088	0.051	0.034	0.002	---	---	0.990	1970
1971	---	---	0.011	0.130	0.067	0.524	0.262	0.009	0.085	0.013	---	---	0.136	1971
1972	---	---	2.23	2.65	0.412	0.262	0.013	0.081	0.147	0.008	---	---	0.721	1972
1973	---	---	0.031	0.025	0.046	0.170	0.018	0.001	0.008	0.015	---	---	0.039	1973
1974	---	---	0	11.6	2.21	0.923	0.228	0.043	0	0.029	---	---	1.85	1974
1975	---	---	0.001	5.62	5.13	2.13	0.363	0.023	1.44	1.51	---	---	2.01	1975
1976	---	---	0.429	32.1	1.41	0.494	0.066	0.005	0.102	0.074	---	---	4.26	1976
1977	---	---	0.030	0.013	0.013	0	0	0	0	0	---	---	0.007	1977
1978	---	---	0.003	0.062	0.014	0.003	0	0	0	0	---	---	0.010	1978
1979	---	---	0	2.20	1.48	0.150	0.012	0	0	0	---	---	0.476	1979
1980	---	---	0	0.028	0	0	0	0	0	0	---	---	0.003	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	1.42	0.130	0.001	0	0	0	0	---	---	0.191	1982
MEAN	---	0.001	0.151	3.16	0.726	0.220	0.092	0.020	0.077	0.070	0	---	0.558	MEAN

LOCATION - LAT 49 05 45 N   DRAINAGE AREA, 1 130 km^2
LONG 101 11 00 W   REGULATED SINCE 1962

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.006 AND 0 m^3/s OCCURRED IN FEBRUARY

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 05NF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	20.3 ON APR 19	0 B ON MAR 1 *	17 600	1956
1957	---	0.0780B ON MAR 29	0 B ON MAR 1	2 250	1957
1958	---	9.57 ON APR 4	0 B ON MAR 1	5 790	1958
1959	---	1.02 B ON MAR 27	0 B ON MAR 1	278	1959
1960	---	6.99 ON APR 5	0 B ON MAR 1	5 440	1960
1961	---	0 ON MAR 1	0 ON MAR 1	0	1961
1962	---	0 ON MAR 1	0 ON MAR 1	0	1962
1963	---	0 ON MAR 1	0 ON MAR 1	0	1963
1964	13.9 AT 02:00 CST ON MAY 7	10.3 ON MAY 9	0 ON MAR 1	10 600	1964
1965	7.96 AT 14:15 CST ON APR 17	4.81 ON APR 17	0 B ON MAR 1	4 850	1965
1966	---	5.10 B ON APR 6	0 B ON MAR 1	8 270	1966
1967	---	0.311A ON MAY 11	0 B ON MAR 1	669	1967
1968	---	0.0578 ON MAR 20	0 B ON MAR 1	186	1968
1969	46.2 AT 16:40 CST ON APR 16	43.9 ON APR 16	0 B ON MAR 1	36 500	1969
1970	18.5 AT 11:15 CST ON MAY 1	18.0 ON MAY 1	0 B ON MAR 1	21 000	1970
1971	---	2.27 ON JUN 14	0 B ON MAR 1	2 880	1971
1972	---	7.11 B ON MAR 27	0 B ON MAR 1	15 300	1972
1973	2.62 AT 03:52 CST ON JUN 3	1.39 ON JUN 3	0 B ON MAR 1	825	1973
1974	53.8 AT 17:00 CST ON APR 17	45.3 A ON APR 17	0 B ON MAR 1	39 200	1974
1975	29.4 AT 10:17 CST ON APR 30	28.3 ON APR 30	0.001B ON MAR 1	42 600	1975
1976	94.3 AT 00:08 CST ON APR 12 *	87.2 ON APR 12 *	0.001 ON SEP 9	90 200	1976
1977	---	0.108B ON MAR 10	0 B ON MAR 1	153	1977
1978	---	0.122B ON APR 6	0 B ON MAR 1	212	1978
1979	15.4 AT 03:34 CST ON APR 27	12.5 ON APR 27	0 B ON MAR 1	10 100	1979
1980	---	0.090B ON APR 16	0 B ON MAR 1	72.4	1980
1981	---	0.002B ON MAR 1	0 B ON MAR 6	0.52	1981
1982	4.83 AT 19:58 CST ON APR 15	4.30 ON APR 21	0 B ON MAR 1	4 040	1982
				11 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 05NF003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	0.016	---	---	---	1935
1936	---	---	---	---	0.267	0.020	---	---	---	---	---	---	---	1936
1943	---	---	0	4.98	0.377	0.490	0.141	0.004	0	0	---	---	0.736	1943
1944	---	---	0	0.006	0.003	0.202	0.224	0.029	0.025	0.007	---	---	0.062	1944
1945	---	---	0.091	0.129	0.020	0.059	0.073	0.006	0	0	---	---	0.047	1945
1946	---	---	0.722	2.83	0.100	0.026	0.005	0	0	0	---	---	0.455	1946
1947	---	---	0	2.15	0.758	1.03	1.40	0.050	0.001	0	---	---	0.669	1947
1948	---	---	0	8.18	3.39	0.329	0.047	0.077	0.012	0.007	---	---	1.49	1948
1949	---	---	0	5.05	0.325	1.64	0.135	0.047	0.004	0	---	---	0.884	1949
1950	---	---	0.021	3.91	2.[illegible]0	0.601	1.17	3.26	0.714	0.161	---	---	1.57	1950
1951	---	---	0	8.65	7.36	0.335	0.064	0.035	0.010	0	---	---	2.05	1951
1952	---	---	0.027	1.60	0.077	0	0.016	0	0	0	---	---	0.211	1952
1953	---	---	0.041	0.729	0.193	0.071	0.092	0.013	0	0	---	---	0.141	1953
1954	---	---	0	0.026	0	0.703	2.21	0.170	0.122	0.140	0.076	---	0.423	1954
1955	---	---	0.015	7.49	2.32	0.389	0.038	0.027	0	0	---	---	1.27	1955
MEAN	---	---	0.071	3.52	1.28	0.421	0.432	0.286	0.068	0.024	0.076	---	0.770	MEAN

LOCATION - LAT 49 09 50 N DRAINAGE AREA, 1 460 km^2
LONG 101 02 46 W NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 05NF003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1943	---	20.1 ON APR 8	0B ON MAR 1 *	15 600	1943
1944	---	0.934 ON JUL 1	0B ON MAR 1	1 310	1944
1945	---	0.612E ON MAR 28	0E ON MAR 1	998	1945
1946	---	14.0 B ON APR 2	0B ON MAR 1	9 620	1946
1947	---	12.0 E ON JUN 29	0B ON MAR 1	14 200	1947
1948	---	36.8 ON APR 25 *	0B ON MAR 1	31 500	1948
1949	---	36.2 ON APR 12	0B ON MAR 1	18 700	1949
1950	---	11.2 ON APR 21	0B ON MAR 1	33 100	1950
1951	---	28.6 ON MAY 6	0B ON MAR 1	43 300	1951
1952	---	7.45 ON APR 10	0B ON MAR 1	4 460	1952
1953	---	3.31 ON APR 9	0B ON MAR 1	2 980	1953
1954	---	3.43 ON JUL 10	0B ON MAR 1	8 950	1954
1955	---	27.2 B ON APR 9	0B ON MAR 1	26 800	1955
				16 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.057	0.025	5.45	1.29	0.079	0.044	0	0	---	---	0.922	1967
1968	---	---	0.363	1.29	0.640	0.615	0.099	0.041	0.005	0.105	---	---	0.507	1968
1969	---	---	0.104	3.06	1.07	0.782	2.17	0.414	0.293	1.53	---	---	1.27	1969
1970	---	---	0.207	4.30	7.40	3.26	2.50	1.01	0.208	0.595	---	---	2.04	1970
1971	---	---	0.221	7.00	1.47	3.53	0.524	0.252	0.005	0.416	---	---	1.65	1971
1972	---	---	0.000	4.23	2.91	0.400	0.212	0.051	0	0.063	---	---	0.997	1972
1973	---	---	0.028	0.665	0.820	2.08	0.571	0.031	0.283	0.202	---	---	0.586	1973
1974	---	---	0.020	6.76	10.1	2.29	0.218	0.105	0.458	0.421	---	---	2.54	1974
1975	---	---	0.125	3.03	4.47	3.44	0.273	0.065	0.744	0.834	---	---	1.61	1975
1976	---	---	0.123	7.41	1.56	5.08	0.770	0.071	0.016	0.052	---	---	1.96	1976
1977	---	---	0.071	0.906	0.927	0.144	0.103	0.106	0.701	0.617	---	---	0.445	1977
1978	---	---	0.074	1.02	1.05	0.803	0.109	0.081	0.100	0.173	---	---	0.511	1978
1979	---	---	0.047	4.34	9.52	3.65	0.106	0.086	0.020	0.107	---	---	2.22	1979
1980	---	---	0.003	1.55	0.349	0.010	0.083	0.981	0.091	0.146	---	---	0.395	1980
1981	---	---	0.059	0.807	0.780	1.40	0.229	0.084	0.019	0.243	---	---	0.449	1981
1982	---	---	0	1.06	0.942	0.496	2.63	0.457	0.004	0.770	---	---	0.799	1982
MEAN	---	---	0.099	3.10	3.09	1.88	0.665	0.282	0.189	0.397	---	---	1.21	MEAN

LOCATION - LAT 51 51 08 N DRAINAGE AREA, 438 km^2
LONG 100 14 58 W NATURAL FLOW

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	11.4 AT 13:45 CST ON MAY 10	11.3 ON MAY 10	0 ON JUL 26 *	19 500	1967
1968	3.82 AT 09:30 CST ON AUG 22	3.71 ON AUG 22	0.001 ON SEP 17	10 700	1968
1969	---	10.2 ON APR 16	0.001 ON SEP 4	27 000	1969
1970	---	14.3 ON APR 28	0.042 ON SEP 20	51 700	1970
1971	21.8 AT 18:00 CST ON APR 11 *	19.1 A ON APR 11	0 ON SEP 23	35 000	1971
1972	13.7 B AT 10:10 CST ON APR 19	12.1 B ON APR 19	0 ON AUG 31	21 100	1972
1973	6.17 AT 00:01 CST ON JUN 23	5.95 ON JUN 22	0 B ON MAR 1	12 400	1973
1974	---	32.6 E ON APR 21 *	0.014 ON AUG 10	53 800	1974
1975	10.1 AT 14:57 CST ON MAY 1	9.91 ON MAY 1	0 ON AUG 17	34 200	1975
1976	20.0 AT 11:15 CST ON APR 9	18.7 ON APR 9	0 ON OCT 8	41 300	1976
1977	3.43 AT 11:16 CST ON SEP 28	3.37 ON SEP 28	0.014B ON MAR 1	9 420	1977
1978	3.88 AT 09:30 CST ON APR 19	2.89 ON APR 27	0 ON AUG 5	10 800	1978
1979	18.1 AT 00:39 CST ON APR 25	17.1 ON APR 24	0 ON AUG 15	47 000	1979
1980	3.03 AT 21:00 CST ON APR 18	2.96 ON APR 19	0 B ON MAR 1	8 360	1980
1981	3.51 AT 02:26 CST ON JUN 18	3.34 ON JUN 18	0 B ON MAR 1	9 500	1981
1982	11.2 AT 21:05 CST ON JUL 20	10.9 ON JUL 20	0 B ON MAR 1	16 900	1982
				25 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	0.169	0.111	0.070	0.144	0.091	0.236	0.185	---	---	---	1958
1959	---	---	0.170	0.469	0.502	1.22	0.162	0.041	0.179	0.409	---	---	0.392	1959
1960	---	---	0.024	0.817	2.05	0.624	0.075	0.037	0.006	0.022	---	---	0.457	1960
1961	---	---	0.003	0.100	0.131	0.008	0.005	0	0	0.025	---	---	0.034	1961
1962	---	---	0.025	0.645	0.139	0.099	0.033	0.035	0.062	0.074	0.071	---	0.137	1962
1963	---	---	0.048	1.13	0.607	0.527	0.105	0.019	0.038	0.085	---	---	0.317	1963
1964	---	---	0.014	0.600	0.467	0.041	0.011	0.012	0.031	0.048	---	---	0.153	1964
1965	---	---	0.004	0.823	1.18	0.342	0.275	0.232	0.088	0.295	---	---	0.503	1965
1966	---	---	0.104	1.00	1.32	1.02	0.161	0.133	0.018	0.065	---	---	0.475	1966
1967	---	---	0.043	0.363	1.87	0.407	0.068	0.120	0.085	0.072	---	---	0.380	1967
1968	---	---	0.235	0.475	0.348	0.223	0.206	0.308	0.104	0.110	---	---	0.251	1968
1969	---	---	0.071	1.21	0.613	0.956	1.39	0.106	0.185	0.860	---	---	0.673	1969
1970	---	---	0.059	0.684	2.94	1.47	1.18	0.244	0.219	0.666	---	---	0.924	1970
1971	---	---	0.052	1.13	0.361	0.792	0.214	0.056	0.029	0.255	---	---	0.358	1971
1972	---	---	0.068	1.22	0.973	0.125	0.069	0.031	0.016	0.053	---	---	0.318	1972
1973	---	---	0.059	0.276	0.432	1.05	0.241	0.037	0.316	0.321	---	---	0.339	1973
1974	---	---	0.065	1.92	2.97	0.709	0.106	0.061	0.308	0.226	---	---	0.793	1974
1975	---	---	0.059	1.30	1.70	1.29	0.082	0.070	0.389	0.295	---	---	0.643	1975
1976	---	---	0.067	2.00	0.482	1.28	0.108	0.044	0.029	0.060	---	---	0.502	1976
1977	---	---	0.048	0.354	0.417	0.087	0.075	0.072	0.471	0.199	---	---	0.214	1977
MEAN	---	---	0.064	0.834	0.981	0.617	0.232	0.088	0.180	0.216	0.071	---	0.414	MEAN

LOCATION - LAT 51 40 20 N DRAINAGE AREA, 103 km^2
LONG 100 29 30 W NATURAL FLOW

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	1.13 AT 09:00 CST ON AUG 30	1.08 ON AUG 30	0 E ON AUG 4 *	---	1958
1959	9.06 AT 19:00 CST ON JUN 28	8.10 ON JUN 28	0.028 ON JUL 26	8 290	1959
1960	6.77 AT 06:00 CST ON MAY 27	5.97 ON MAY 27	0 B ON MAR 1	9 670	1960
1961	---	0.272A ON APR 22	0 B ON MAR 2	717	1961
1962	7.08 AT 04:00 CST ON APR 21	3.60 ON APR 20	0 B ON MAR 1	2 910	1962
1963	13.0 B AT 11:00 CST ON APR 8 *	7.42 B ON APR 8	0 B ON MAR 1	6 710	1963
1964	4.13 AT 10:10 CST ON MAY 8	2.81 ON MAY 8	0.003 ON JUL 27	3 240	1964
1965	8.72 AT 01:00 CST ON MAY 7	7.82 ON MAY 7	0.003B ON MAR 1	10 600	1965
1966	8.75 AT 02:30 CST ON MAY 5	5.27 ON MAY 5	0.006 ON SEP 22	10 100	1966
1967	8.24B AT 08:00 CST ON MAY 7	7.14 B ON MAY 7	0 ON SEP 6	8 030	1967
1968	---	1.48 B ON MAR 29	0.024 ON SEP 12	5 310	1968
1969	3.79B AT 08:43 CST ON APR 13	3.60 B ON APR 12	0 ON SEP 14	14 200	1969
1970	8.07 AT 07:11 CST ON MAY 7	6.94 ON MAY 7	0.004 ON AUG 22	19 500	1970
1971	5.75 AT 17:20 CST ON JUN 6	4.13 ON JUN 6	0.014 ON AUG 30	7 570	1971
1972	6.12 AT 05:20 CST ON APR 22	4.67 ON APR 22	0 ON SEP 3	6 730	1972
1973	7.76 AT 03:37 CST ON JUN 20	6.82 ON JUN 20	0 ON AUG 16	7 170	1973
1974	11.8 AT 01:28 CST ON MAY 22	10.3 ON MAY 22 *	0.003 ON AUG 11	16 800	1974
1975	8.89 AT 23:07 CST ON APR 28	6.34 ON APR 28	0.003 ON JUL 25	13 600	1975
1976	8.81 AT 07:30 CST ON APR 9	7.42 ON APR 9	0.014 ON AUG 24	10 600	1976
1977	3.54 AT 10:52 CST ON SEP 26	3.34 ON SEP 26	0.021 ON JUL 4	4 540	1977
				8 750	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GARLAND RIVER NEAR PULP RIVER - STATION NO. 05LG002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.78	5.30	10.3	3.32	0.314	1.84	2.12	0.630	---	---	1954
1955	---	---	---	5.28	5.21	3.72	0.311	0.037	0.017	0.145	---	---	---	1955
1956	---	---	0	0.767	5.19	2.22	2.02	0.277	0.380	0.441	---	---	1.42	1956
1957	---	---	0	4.00	3.27	0.397	0	0	0	0	---	---	0.952	1957
1958	---	---	0.100	0.413	0.306	0.104	0.228	0.101	0.249	0.236	---	---	0.217	1958
1959	---	---	---	1.30	1.06	6.86	2.51	0.137	0.894	2.21	---	---	---	1959
1960	---	---	0	5.88	7.91	3.99	0.258	0.074	0	0	---	---	2.25	1960
1961	---	---	0.014	0.339	0.783	0.138	0	0	0	0	---	---	0.159	1961
1963	---	---	0.099	1.28	1.70	1.79	0.507	0.039	0	0.005	---	---	0.673	1963
1964	---	---	0.057	0.731	1.18	0.168	0.005	0	0	0.032	---	---	0.271	1964
1965	---	---	0	1.38	2.80	1.02	0.275	0.458	1.33	0.504	---	---	0.969	1965
1966	---	---	0.050	4.46	3.69	2.38	0.809	0.138	0.062	0.033	---	---	1.44	1966
MEAN	---	---	0.036	2.47	3.20	2.76	0.854	0.131	0.398	0.477	0.630	---	0.928	MEAN

LOCATION - LAT 51 48 20 N LONG 100 18 16 W DRAINAGE AREA, 401 km^2 NATURAL FLOW

GARLAND RIVER NEAR PULP RIVER - STATION NO. 05LG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	19.5 ON MAY 30	0B ON APR 1 *	---	1954
1955	---	15.0 ON MAY 6	0 ON AUG 21	---	1955
1956	---	7.22 ON MAY 11	0B ON MAR 1	30 000	1956
1957	---	13.3 ON APR 26	0B ON MAR 1	20 200	1957
1958	---	1.13 ON APR 4	0B ON MAR 1	4 580	1958
1959	---	20.9 ON JUN 30 *	---	---	1959
1960	---	19.2 ON MAY 30	0B ON MAR 1	47 600	1960
1961	---	6.57E ON MAY 21	0B ON MAR 1	3 370	1961
1963	---	7.42 ON APR 11	0B ON MAR 1	14 300	1963
1964	---	3.77 ON MAY 10	0 ON JUL 15	5 730	1964
1965	---	7.33 ON MAY 9	0B ON MAR 1	20 500	1965
1966	---	10.2 B ON APR 6	0 ON SEP 24	30 600	1966
				19 700	MEAN

B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO. 06FA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	23.6	17.8	13.4	10.3	---	---	70.3	42.9	37.5	50.1	40.6	26.1	---	1979
1980	14.3	12.8	12.2	15.1	25.2	43.6	70.1	106	159	105	74.6	39.5	56.6	1980
1981	21.0	17.2	15.2	14.0	64.8	68.4	39.2	20.5	13.1	10.5	9.81	9.03	25.3	1981
1982	8.82	8.93	9.08	9.06	79.3	115	70.8	---	---	---	53.0	32.4	---	1982
MEAN	16.9	14.2	12.5	12.3	56.4	75.7	62.6	56.5	69.9	55.2	44.5	26.8	41.0	MEAN

LOCATION - LAT 57 21 00 N LONG 97 35 52 W DRAINAGE AREA, 5 960 km^2 NATURAL FLOW

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO. 04FA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	104 AT 23:60 CST ON JUN 28	98.0 ON JUN 30	9.600 ON APR 19	---	1979
1980	207 AT 22:14 CST ON SEP 8 *	201 ON SEP 7 *	11.6 B ON APR 16	1 790 000	1980
1981	92.1 AT 21:00 CST ON MAY 16	92.0 ON MAY 14	8.42 ON OCT 12 *	790 000	1981
1982	129 AT 04:54 CST ON JUN 9	128 ON JUN 10	8.800 ON JAN 1	---	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 290 000	MEAN

GINBY CREEK NEAR CARTWRIGHT - STATION NO. 05OA015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	5.33	1.79	0.104	---	---	---	---	---	---	1.79	1979
1980	---	---	0	0.355	0.003	0	---	---	---	---	---	---	0.088	1980
1981	---	0.235	0.071	0.029	0.026	0.030	---	---	---	---	---	---	0.039	1981
1982	---	---	0.082	2.90	0.295	0.165	---	---	---	---	---	---	0.849	1982
MEAN	---	0.235	0.038	2.15	0.529	0.075	---	---	---	---	---	---	0.692	MEAN

LOCATION - LAT 49 04 40 N DRAINAGE AREA, 220 km^2
LONG 99 21 00 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.19 AND 0 M3/ OCCURRED IN FEBRUARY

GINBY CREEK NEAR CARTWRIGHT - STATION NO. 05OA015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	43.4 B ON APR 22 *	0 B ON MAR 1 *	18 900	1979
1980	5.68 AT 17:29 CST ON APR 5	2.42 ON APR 6	0 B ON MAR 1	928	1980
1981	---	0.216B ON MAR 20	0.011A ON APR 20	415	1981
1982	11.2 B AT 16:15 CST ON APR 13 *	10.4 B ON APR 13	0 B ON MAR 1	8 950	1982
A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 300	MEAN

GLENELLA DRAIN NEAR GLENELLA - STATION NO. 05LL026

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	7.79	6.62	0.696	0.041	0	0	0	---	---	1.88	1974
1975	---	---	0	1.41	1.41	0.762	0.058	2.19	13.3	3.53	---	---	2.80	1975
1976	---	---	0.113	20.8	1.60	0.514	0.146	0	0	0	---	---	2.84	1976
1977	---	---	0.002	0.208	0.222	0.052	0.069	0	0.220	0.117	---	---	0.111	1977
1978	---	---	0	1.46	0.680	0.137	0.018	0	0.031	0.040	---	---	0.293	1978
1979	---	---	0	7.59	10.1	1.07	0.073	0.001	0	0	---	---	2.35	1979
1980	---	---	0	0.580	0.049	0	0	1.26	0.850	0.316	---	---	0.381	1980
1981	---	---	0.293	0.279	0.295	0.354	0.101	0.047	0.005	0.093	---	---	0.183	1981
1982	---	---	0.008	3.16	0.956	0.229	1.26	0.134	0	0.104	---	---	0.727	1982
MEAN	---	---	0.046	4.81	2.44	0.424	0.196	0.404	1.60	0.467	---	---	1.29	MEAN

LOCATION - LAT 50 33 37 N
LONG 99 09 23 W NATURAL FLOW

GLENELLA DRAIN NEAR GLENELLA - STATION NO. 05LL026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	31.7 ON APR 21	0B ON MAR 1 *	39 800	1974
1975	45.9 AT 16:25 CST ON SEP 22 *	43.9 ON SEP 22	0B ON MAR 1	59 300	1975
1976	---	51.5 ON APR 9 *	0 ON JUL 31	60 100	1976
1977	---	1.97 ON SEP 26	0B ON MAR 1	2 340	1977
1978	---	4.13 ON APR 25	0B ON MAR 1	6 210	1978
1979	---	33.7 B ON APR 26	0B ON MAR 1	49 700	1979
1980	---	9.76 ON AUG 21	0B ON MAR 1	8 050	1980
1981	0.867 AT 00:00 CST ON APR 2	0.819B ON MAR 31	0B ON MAR 1	3 800	1981
1982	---	8.62 B ON APR 16	0B ON MAR 1	15 400	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		27 200	MEAN

GODS RIVER AT OUTLET OF GODS LAKE - STATION NO. 04AC005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	---	91.5	94.4	88.7	98.4	111	116	115	115	118	121	---	1933
1934	123	127	129	110	119	193	314	338	303	267	243	227	208	1934
1935	203	177	155	143	144	151	142	122	116	111	---	---	---	1935
1936	---	---	---	117	119	153	204	213	204	170	161	150	---	1936
1937	140	128	118	108	132	203	208	297	266	242	225	210	197	1937
1938	197	186	165	155	164	201	259	271	247	210	163	141	196	1938
1939	126	115	104	91.6	94.4	123	183	221	213	181	161	150	148	1939
1940	152	140	128	118	120	151	158	153	136	118	105	101	132	1940
1941	95.7	93.5	91.4	95.6	125	173	197	201	176	159	141	130	141	1941
1942	136	134	133	125	114	127	146	161	196	210	214	200	159	1942
1943	183	176	160	148	156	176	192	187	180	174	171	166	172	1943
1944	158	144	129	117	114	110	111	117	117	113	114	116	122	1944
1947	---	---	---	---	---	---	---	---	---	311	281	253	---	1947
1948	222	194	166	152	141	128	125	118	99.0	86.7	78.1	73.9	132	1948
1949	71.9	70.3	68.8	67.6	72.0	78.2	94.5	103	115	167	246	302	122	1949
1950	287	244	205	179	184	236	284	307	295	254	212	201	241	1950
1951	189	171	155	142	157	179	196	206	224	264	275	259	202	1951
1952	223	189	164	146	152	189	258	339	307	375	339	320	257	1952
1953	276	233	197	173	169	173	259	294	276	223	199	198	222	1953
1954	173	158	146	135	130	140	164	172	159	143	134	130	149	1954
1955	131	126	121	121	147	198	267	337	319	287	265	233	213	1955
1956	199	177	163	154	151	164	182	179	160	141	163	124	161	1956
1957	117	112	108	106	113	130	160	178	167	150	136	122	133	1957
1958	117	113	107	104	106	114	124	154	154	152	150	147	128	1958
1959	149	148	140	137	161	278	404	410	350	332	309	277	259	1959
1960	243	206	153	147	162	178	196	191	162	143	131	119	169	1960
1961	111	104	97.7	91.3	97.7	103	98.4	94.7	89.4	81.2	80.8	63.9	92.6	1961
1962	57.1	62.6	72.6	83.7	88.5	105	119	122	131	131	125	115	101	1962
1963	103	101	107	113	130	171	210	208	189	174	158	148	151	1963
1964	138	128	119	116	126	148	167	171	163	127	121	116	137	1964
1965	112	107	102	101	114	163	218	237	206	236	224	205	169	1965
1966	181	159	143	132	136	178	237	264	256	229	207	191	193	1966
1967	174	155	133	128	137	234	352	377	324	259	213	186	223	1967
1968	165	147	133	120	124	163	220	261	271	260	245	229	195	1968
1969	210	190	167	149	138	135	136	134	137	159	198	230	165	1969
1970	231	215	193	168	162	179	200	202	189	181	185	197	192	1970
1971	201	188	174	160	175	210	233	235	214	177	157	147	189	1971
1972	130	120	116	103	119	145	160	162	145	130	119	112	132	1972
1973	107	101	96.4	94.7	102	134	175	195	179	178	185	189	145	1973
1974	183	166	155	144	146	176	199	208	189	167	153	142	169	1974
1975	135	125	119	111	115	129	145	169	188	198	195	186	151	1975
1976	173	158	141	126	119	112	109	106	108	99.4	90.6	84.2	119	1976
1977	80.8	70.0	76.1	75.0	80.3	92.5	80.7	77.7	83.3	89.4	89.9	88.3	81.9	1977
1978	88.1	86.4	82.3	81.4	94.1	109	115	122	123	140	161	166	116	1978
1979	157	153	151	143	154	221	299	317	279	244	225	201	212	1979
1980	185	174	162	146	146	145	137	127	117	114	118	116	108	1980
1981	114	109	102	95.2	96.8	102	110	111	106	107	110	128	108	1981
1982	130	126	119	112	120	134	146	162	174	171	164	166	144	1982
MEAN	157	145	132	123	129	156	189	201	192	183	175	168	163	MEAN

LOCATION - LAT 54 50 14 N DRAINAGE AREA, 25 900 km²
LONG 94 05 11 W NATURAL FLOW

GODS RIVER AT OUTLET OF GODS LAKE - STATION NO. 04AC005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	---	---	---	1933
1934	---	360 ON AUG 4	106 ON APR 30	6 570 000	1934
1935	---	218 ON JAN 1	109 ON OCT 11	---	1935
1936	---	---	---	---	1936
1937	---	303 ON JUL 30	105 ON APR 23	6 210 000	1937
1938	---	277 ON AUG 5	134 ON DEC 31	6 100 000	1938
1939	---	227 ON AUG 17	86.4 ON APR 29	4 670 000	1939
1940	---	158 ON JUN 23	99.1 ON DEC 30	4 160 000	1940
1941	---	210 ON AUG 4	90.6 ON APR 8	4 440 000	1941
1942	---	223 ON OCT 21	111 ON MAY 19	5 010 000	1942
1943	---	219 ON FEB 25	144 ON APR 20	5 440 000	1943
1944	---	174 ON JUN 16	105 ON JUN 10	3 840 000	1944
1947	---	---	---	---	1947
1948	---	236 ON JAN 1	72.5 ON DEC 29	4 170 000	1948
1949	---	306 ON DEC 16	67.1 ON APR 17	3 840 000	1949
1950	---	311 E ON AUG 22	168 ON APR 30	7 590 000	1950
1951	---	277 ON NOV 18	137 ON APR 20	6 360 000	1951
1952	---	394 ON SEP 16	143 ON APR 16	8 120 000	1952
1953	---	303 ON JAN 1	161 ON JUN 15	7 000 000	1953
1954	---	181 ON JAN 1	127 ON MAY 21	4 690 000	1954
1955	---	303 ON AUG 19	119 ON APR 3	6 720 000	1955
1956	---	219 ON JAN 1	119 ON DEC 31	5 110 000	1956
1957	---	180 ON AUG 8	105 ON APR 4	4 200 000	1957
1958	---	155 ON AUG 5	103 ON APR 8	4 050 000	1958
1959	---	436 ON JUL 25 *	135 ON MAR 30	8 100 000	1959
1960	---	251 ON JAN 1	115 B ON DEC 30	5 350 000	1960
1961	---	115 B ON JAN 1	56.9B ON DEC 31	2 930 000	1961
1962	137 AT 18:00 CST ON SEP 22	135 ON SEP 22	56.1 ON JAN 5 *	3 190 000	1962
1963	218 AT 18:00 CST ON AUG 6	217 ON AUG 7	100 B ON FEB 2	4 770 000	1963
1964	186 AT 05:35 CST ON JUL 23	175 ON AUG 3	115 B ON DEC 21	4 320 000	1964
1965	---	249 ON AUG 6	101 B ON MAR 21	5 300 000	1965
1966	272 AT 15:30 CST ON AUG 28	266 ON AUG 11	127 B ON APR 26	6 090 000	1966
1967	---	308 A ON AUG 15	128 B ON APR 15	7 040 000	1967
1968	278 AT 15:30 CST ON SEP 23 *	274 ON SEP 13	116 ON MAY 1	6 170 000	1968
1969	---	236 ON DEC 31	130 A ON AUG 30	5 210 000	1969
1970	---	236 A ON JAN 1	158 ON MAY 5	6 050 000	1970
1971	245 AT 12:00 CST ON AUG 10	239 ON AUG 15	140 E ON DEC 31	5 970 000	1971
1972	168 AT 13:46 CST ON JUL 30	167 ON JUL 30	90.8B ON APR 28	4 170 000	1972
1973	208 AT 16:35 CST ON AUG 17	200 ON AUG 18	93.7 ON APR 10	4 580 000	1973
1974	215 AT 19:00 CST ON AUG 10	213 ON AUG 6	138 ON DEC 24	5 340 000	1974
1975	212 AT 09:30 CST ON OCT 19	201 ON OCT 19	109 ON APR 28	4 700 000	1975
1976	181 AT 12:30 CST ON JAN 2	179 ON JAN 1	82.7 ON DEC 29	3 750 000	1976
1977	93.4 AT 03:00 CST ON NOV 5	92.9 ON NOV 3	73.1 ON APR 11	2 580 000	1977
1978	---	169 B ON NOV 29	81.3B ON MAR 26	3 600 000	1978
1979	---	326 A ON AUG 5	139 ON APR 17	6 700 000	1979
1980	193 B AT 00:01 CST ON JAN 1	192 B ON JAN 1	111 ON OCT 10	4 030 000	1980
1981	132 AT 08:43 CST ON DEC 25	132 ON DEC 25	93.3 ON APR 20	3 420 000	1981
1982	---	176 E ON SEP 9	108 ON APR 23	4 530 000	1982
				5 160 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	---	---	---	---	---	---	601	689	---	---	---	1969
1970	207	218	233	253	464	960	655	429	413	676	650	312	457	1970
1971	251	259	229	331	866	669	681	622	441	316	452	301	453	1971
1972	166	168	154	175	803	659	424	333	404	452	226	165	343	1972
1973	158	155	146	155	633	508	510	403	374	896	509	441	416	1973
1974	294	268	249	250	752	908	588	468	519	438	250	195	432	1974
1975	182	174	163	241	852	505	450	660	682	---	---	---	---	1975
1976	316	257	212	255	986	329	472	385	595	362	193	109	367	1976
1977	88.4	103	110	330	366	216	273	321	496	337	270	203	260	1977
1978	160	166	135	138	913	586	652	768	765	635	384	300	468	1978
1979	264	243	222	238	864	816	754	503	442	471	417	310	471	1979
1980	246	224	210	387	964	470	469	337	352	530	302	229	416	1980
1981	210	176	152	136	793	725	546	456	369	647	344	279	405	1981
1982	240	211	186	170	1 110	758	430	415	446	442	386	288	425	1982
MEAN	214	199	185	235	7[illegible]1	627	530	480	507	531	372	241	409	MEAN

LOCATION - LAT 55 51 00 N   DRAINAGE AREA, 65 500 km^2
LONG 92 05 55 W   NATURAL FLOW

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1970	1 250 AT 09:12 CST ON JUN 11	1 240 ON JUN 11	204 B ON JAN 1	14 400 000	1970
1971	1 180B AT 00:00 CST ON MAY 11	1 160B ON MAY 11	161 B ON APR 13	14 300 000	1971
1972	1 140 AT 00:00 CST ON MAY 20	1 110 ON MAY 19	130 B ON DEC 15	10 900 000	1972
1973	1 330 AT 15:00 CST ON OCT 16 *	1 330 ON OCT 16	140 B ON MAR 23	13 100 000	1973
1974	1 170 AT 14:00 CST ON JUN 9	1 150 ON JUN 9	183 B ON DEC 30	13 600 000	1974
1975	---	---	---	---	1975
1976	---	1 780E ON MAY 14	92.0B ON DEC 31	11 600 000	1976
1977	---	813B ON APR 25	84.7B ON JAN 12 *	8 200 000	1977
1978	---	1 780E ON MAY 13	133 B ON MAR 17	14 800 000	1978
1979	---	1 370B ON MAY 24	214 B ON MAR 20	14 800 000	1979
1980	---	1 690B ON MAY 3	207 B ON MAR 17	13 200 000	1980
1981	---	1 760B ON MAY 18	130 B ON APR 25	12 800 000	1981
1982	---	2 130B ON MAY 3 *	161 B ON APR 24	13 400 000	1982
				12 900 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.83	0.376	0.003	0.011	0	0	0	---	---	1.06	1974
1975	---	---	0	0.122	0.023	0.020	0	0.011	0.031	0.018	---	---	0.041	1975
1976	---	---	0.002	1.97	0.006	0.004	0	0	0	0	---	---	0.487	1976
1977	---	---	0.005	0	0.002	0.007	---	---	---	---	---	---	0.003	1977
1978	---	---	0.003	0.098	0.008	0.007	---	---	---	---	---	---	0.028	1978
1979	---	---	0	2.04	0.263	0.033	---	---	---	---	---	---	0.576	1979
1980	---	---	0	0.015	0	0	---	---	---	---	---	---	0.004	1980
1981	---	---	0.001	0.001	0.004	0.006	---	---	---	---	---	---	0.003	1981
1982	---	---	0.003	0.207	0.002	0	---	---	---	---	---	---	0.052	1982
MEAN	---	---	0.002	0.920	0.076	0.009	0.004	0.004	0.010	0.006	---	---	0.248	MEAN

LOCATION - LAT 50 13 27 N   DRAINAGE AREA, 73.3 km^2
            LONG 98 58 36 W   NATURAL FLOW

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	15.9 B ON APR 20 *	0B ON MAR 1 *	10 900	1974
1975	---	0.756B ON APR 20	0B ON MAR 1	429	1975
1976	---	13.1 ON APR 8	0B ON MAR 1	5 130	1976
1977	---	0.037 ON JUN 13	0B ON MAR 1	36.5	1977
1978	---	0.402 ON APR 9	0B ON MAR 1	300	1978
1979	---	10.9 ON APR 24	0B ON MAR 1	6 080	1979
1980	---	0.052B ON APR 5	0B ON MAR 1	37.6	1980
1981	0.024 AT 18:18 CST ON MAY 29	0.021 ON MAY 30	0B ON MAR 1	30.5	1981
1982	1.97 A AT 12:00 CST ON APR 15 *	1.88 A ON APR 15	0B ON MAR 1	551	1982
				2 610	MEAN

A - MANUAL GAUGE   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MG003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.107	0.051	0.021	0	0	0	0	0	---	---	0.022	1959
1960	---	---	0	1.40	0.078	0.026	0	0	0	0	---	---	0.185	1960
1961	---	---	0	0.123	0.010	0	0	0	0	0	---	---	0.016	1961
1962	---	---	0	0.498	0.038	0.109	0	0.080	0	0	---	---	0.099	1962
1963	---	---	0.005	0.244	0.129	0.736	0.102	0.001	0.001	0	---	---	0.351	1963
1964	---	---	0	1.43	0.776	0.075	0.002	0	0	0	---	---	0.283	1964
1965	---	---	0	1.80	0.148	0.099	0.041	0.045	0.282	0.334	---	---	0.440	1965
1966	---	---	0.223	0.550	0.311	0.003	0	0	0	0	---	---	0.135	1966
1967	---	---	0	1.29	0.341	0.009	0	0	0	0	---	---	0.202	1967
1968	---	---	0.389	0.033	0.111	0.004	0	0	0	0	---	---	0.068	1968
1969	---	---	0	4.01	0.281	0.017	0.540	0.053	0	0.056	---	---	0.610	1969
1970	---	---	0	2.64	1.49	0.175	0.217	0.100	0.059	0.127	---	---	0.603	1970
1971	---	---	0.012	0.540	0.114	0.029	0.280	0.012	0.041	0.097	---	---	0.239	1971
1972	---	---	1.25	0.970	0.118	0.013	0.001	0.001	0.001	0.001	---	---	0.295	1972
1973	---	---	0.088	0.050	0.005	0.013	0.102	0.013	0.025	0.137	---	---	0.065	1973
1974	---	---	0.001	3.70	0.795	0.000	0	0	0	0	---	---	0.564	1974
1975	---	---	0	2.34	0.907	0.471	0.029	0.058	0.408	0.170	---	---	0.541	1975
1976	---	---	0	11.6	0.259	0.114	0.049	0	0	0	---	---	1.47	1976
1977	---	---	0.007	0.019	0.149	0.005	0	0	0	0	---	---	0.023	1977
1978	---	---	0.016	0.276	0.082	0.008	0	0	0	0	---	---	0.047	1978
1979	---	---	0	2.12	0.541	0.130	0.002	0	0	0	---	---	0.344	1979
1980	---	---	0	0.095	0	0	0	0	0	0	---	---	0.012	1980
1981	---	0.130	0.074	0	0.001	0	0	0	0	0	---	---	0.009	1981
1982	---	---	0	0.880	0.022	0.011	0	0	0	0	---	---	0.112	1982
MEAN	---	0.130	0.124	1.53	0.284	0.125	0.091	0.017	0.034	0.038	---	---	0.276	MEAN

LOCATION - LAT 49 47 00 N DRAINAGE AREA, 290 km^2
LONG 100 57 52 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.410 AND 0 m^3/s OCCURRED IN FEBRUARY

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MG003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.467 ON MAR 27	0B ON MAR 1 *	475	1959
1960	---	5.44 B ON APR 4	0B ON MAR 1	3 910	1960
1961	---	0.634 ON APR 4	0 ON MAR 1	345	1961
1962	---	4.05 ON APR 7	0 ON MAR 1	2 100	1962
1963	---	4.87 B ON MAR 23	0B ON MAR 1	5 330	1963
1964	---	3.74 ON APR 10	0B ON MAR 1	5 990	1964
1965	---	7.82 ON APR 14	0B ON MAR 1	9 310	1965
1966	---	2.12 B ON MAR 30	0B ON MAR 1	2 870	1966
1967	---	2.83 B ON APR 11	0B ON MAR 1	4 280	1967
1968	---	1.81 B ON MAR 26	0B ON MAR 1	1 430	1968
1969	---	17.3 B ON APR 14	0B ON MAR 1	12 900	1969
1970	---	8.55 B ON APR 10	0B ON MAR 1	12 800	1970
1971	---	4.73 ON JUN 9	0B ON MAR 1	5 060	1971
1972	---	4.81 B ON MAR 21	0B ON MAR 1	6 230	1972
1973	---	1.16 ON JUL 28	0B ON MAR 1	1 370	1973
1974	---	13.4 ON APR 18	0B ON MAR 1	11 900	1974
1975	---	7.48 B ON APR 17	0B ON MAR 1	11 500	1975
1976	---	46.2 B ON APR 10 *	0B ON MAR 1	31 200	1976
1977	---	0.521 ON MAY 9	0B ON MAR 1	477	1977
1978	---	0.912B ON APR 11	0B ON MAR 1	998	1978
1979	---	10.8 ON APR 23	0B ON MAR 1	7 290	1979
1980	---	0.424B ON APR 8	0B ON MAR 1	246	1980
1981	---	0.283B ON MAR 1	0 ON MAR 30	201	1981
1982	6.27 AT 10:55 CST ON APR 14 *	5.73 ON APR 14	0B ON MAR 1	2 370	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 860	MEAN

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.014	0	---	---	---	---	---	---	---	1936
1943	---	---	0	1.05	0.061	0.175	0.020	0	0	0	---	---	0.210	1943
1944	---	---	0	0	0	0.101	0.127	0.006	0.004	0.004	---	---	0.030	1944
1945	---	---	0.015	0.076	0.027	0.020	0.009	0	0	0	---	---	0.018	1945
1946	---	---	0.667	0.251	0.013	0	0.002	0	0	0	---	---	0.116	1946
1947	---	---	0	0.199	0.006	0.150	0.123	0	0	0	---	---	0.059	1947
1948	---	---	0	1.11	0.676	0.004	0	0	0	0	---	---	0.222	1948
1949	---	---	0	1.16	0.054	0.346	0.002	0	0	0	---	---	0.179	1949
1950	---	---	0	0.663	0.625	0.162	0.131	0.360	0.106	0.060	---	---	0.269	1950
1951	---	---	0	2.17	1.58	0.002	0	0	0	0	---	---	0.475	1951
1952	---	---	0.033	0.267	0	0	0.000	0	0	0	---	---	0.038	1952
1953	---	---	0.016	0.035	0	0.007	0	0	0	0	---	---	0.007	1953
1954	---	---	0	0	0	0.227	0.190	0.030	0	0	---	---	0.056	1954
1955	---	---	0	1.71	0.416	0.095	0.030	0	0	0	---	---	0.277	1955
1956	---	---	0	1.09	0.190	0.056	0.015	0	0	0	---	---	0.264	1956
1957	---	---	0.076	0.078	0.043	0.068	0.009	0.161	0.101	0.023	---	---	0.077	1957
1958	---	---	0.355	0.309	0.010	0	0	0	0	0	---	---	0.072	1958
1959	---	---	0.071	0.005	0	0	0	0	0	0	---	---	0.010	1959
1960	---	---	0.108	0.507	0.019	0.009	0	0	0	0	---	---	0.079	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0.125	0.017	0.002	0.505	0.019	0.003	0.007	0.001	---	---	0.089	1963
1964	---	---	0.433	0.791	0.500	0.101	0.016	0	0	0	---	---	0.229	1964
1965	---	---	0	0.218	0.004	0.095	0.003	0	0	0.007	---	---	0.050	1965
1966	---	---	0.191	0.205	0.166	0.040	0.001	0	0	0	---	---	0.076	1966
1967	---	---	0	0.051	0.077	0.001	0	0	0	0	---	---	0.016	1967
1968	---	---	0.001	0.004	0	0	0	0	0	0	---	---	0.011	1968
1969	---	---	0	3.29	0.571	0.003	0.102	0.023	0	0	---	---	0.506	1969
1970	---	---	0	0.923	2.05	0.156	0.016	0.006	0	0	---	---	0.395	1970
1971	---	---	0	0.065	0.005	0.169	0.031	0	0	0.003	---	---	0.036	1971
1972	---	---	0.709	0.509	0.111	0.097	0.022	0.010	0.005	0.003	---	---	0.183	1972
1973	---	---	0.007	0.025	0.078	0.019	0.001	0	0	0.006	---	---	0.017	1973
1974	---	---	0	3.49	0.549	0.164	0.007	0.003	0	0	---	---	0.518	1974
1975	---	---	0	1.67	1.76	0.121	0.039	0.008	0.027	0.273	---	---	0.486	1975
1976	---	---	0	14.4	1.20	0.117	0.003	0.001	0	0	---	---	1.93	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.007	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.497	0.043	0.006	0	0	0	0	---	---	0.067	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.241	0	0	0.002	0	0	0	---	---	0.030	1982
MEAN	---	0.001	0.072	0.954	0.267	0.076	0.024	0.015	0.009	0.010	---	---	0.177	MEAN

LOCATION - LAT 49 15 50 N DRAINAGE AREA, 754 km^2
LONG 100 59 45 W NATURAL FLOW

REMARKS - DATA PRIOR TO 1957 WERE PUBLISHED UNDER STATION NO. 05NF004 "GRAHAM CREEK NEAR MELITA"

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	0 ON MAY 24 *	---	1936
1943	---	10.1 ON APR 4	0B ON MAR 1	4 450	1943
1944	---	0.694 ON JUN 29	0B ON MAR 1	636	1944
1945	---	0.501B ON APR 13	0B ON MAR 1	384	1945
1946	---	6.80 ON MAR 27	0B ON MAR 1	2 420	1946
1947	---	0.864B ON APR 12	0B ON MAR 1	1 250	1947
1948	---	5.15 ON APR 23	0B ON MAR 1	4 780	1948
1949	---	11.2 ON APR 11	0B ON MAR 1	3 800	1949
1950	---	1.38 ON MAY 16	0B ON MAR 1	5 690	1950
1951	---	7.02 ON MAY 5	0B ON MAR 1	10 800	1951
1952	---	1.10 B ON APR 2	0B ON MAR 1	802	1952
1953	---	0.510 ON MAR 31	0E ON MAR 1	152	1953
1954	---	0.227E ON JUN 1	0E ON MAR 1	1 190	1954
1955	---	7.02 B ON APR 5	0B ON MAR 1	5 850	1955
1956	---	4.53 ON APR 14	0B ON MAR 1	5 590	1956
1957	---	1.27 ON AUG 1	0 ON MAR 1	1 630	1957
1958	---	2.27 B ON MAR 29	0B ON MAR 1	1 520	1958
1959	---	0.566B ON MAR 27	0B ON MAR 1	203	1959
1960	---	1.81 B ON APR 4	0B ON MAR 1	1 670	1960
1961	---	0 ON MAR 1	0 ON MAR 1	0	1961
1962	---	0 ON MAR 1	0 ON MAR 1	0	1962
1963	---	1.50 ON JUN 2	0B ON MAR 1	1 870	1963
1964	---	2.12 B ON APR 3	0B ON MAR 1	4 050	1964
1965	---	0.654B ON APR 10	0 ON MAR 1	1 060	1965
1966	---	0.739B ON MAR 15	0B ON MAR 1	1 620	1966
1967	---	0.289B ON APR 11	0B ON MAR 1	342	1967
1968	---	0.391B ON MAR 26	0B ON MAR 1	229	1968
1969	---	11.8 ON APR 17	0B ON MAR 1	10 700	1969
1970	---	5.66 E ON MAY 3	0B ON MAR 1	8 350	1970
1971	---	0.841 ON JUN 12	0B ON MAR 1	710	1971
1972	---	2.18 B ON MAR 24	0B ON MAR 1	3 870	1972
1973	---	0.122 ON MAY 2	0B ON MAR 1	359	1973
1974	---	14.8 B ON APR 18	0B ON MAR 1	11 000	1974
1975	---	6.60 ON MAY 3	0B ON MAR 1	10 300	1975
1976	---	36.5 ON APR 12 *	0B ON MAR 1	40 800	1976
1977	---	0.001B ON MAR 8	0B ON MAR 1	0.52	1977
1978	---	0.040B ON APR 16	0B ON MAR 1	18.0	1978
1979	---	3.20 B ON APR 19	0B ON MAR 1	1 420	1979
1980	---	0 B ON MAR 1	0B ON MAR 1	0	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	1.46 AT 02:10 CST ON APR 16 *	1.26 ON APR 15	0B ON MAR 1	630	1982
MEAN				3 750	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 05TD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	---	---	---	---	119	98.3	78.6	61.7	---	1959
1960	48.2	43.1	33.1	30.6	48.7	123	110	91.5	66.3	48.0	39.0	29.9	59.3	1960
1961	23.8	20.7	17.9	15.6	34.2	43.0	35.8	29.6	22.4	18.3	19.0	16.5	24.8	1961
1962	15.2	14.2	13.3	12.9	41.4	105	112	77.5	56.2	44.8	40.5	38.2	47.7	1962
1963	35.8	31.8	28.7	30.9	70.6	130	125	89.7	64.3	51.3	48.0	42.8	62.6	1963
1964	36.2	28.5	23.3	39.2	68.8	80.2	63.8	53.1	59.9	87.5	104	99.4	62.0	1964
1965	82.9	66.4	54.3	43.3	103	194	207	161	138	114	99.5	84.1	113	1965
1966	68.7	58.3	48.9	41.5	70.6	184	237	228	187	138	99.4	75.9	120	1966
1967	59.9	50.7	44.1	38.9	54.9	121	130	111	80.8	60.4	50.4	43.9	70.6	1967
1968	37.1	33.7	29.2	27.5	69.2	140	142	117	95.1	90.7	97.3	94.4	81.3	1968
1969	79.7	66.6	51.8	47.3	67.0	96.4	95.9	70.4	86.7	116	127	109	84.5	1969
1970	84.9	64.3	49.8	39.4	52.2	103	154	138	107	87.5	91.1	88.2	88.5	1970
1971	76.1	62.7	48.8	42.9	80.3	102	114	101	86.3	73.0	90.3	99.6	81.5	1971
1972	92.3	73.6	56.1	41.1	87.8	133	145	129	107	97.7	86.2	73.0	93.6	1972
1973	58.8	47.1	39.1	35.9	47.0	65.8	82.1	84.4	79.3	68.1	61.4	53.5	60.3	1973
1974	45.0	38.3	32.8	31.5	57.5	119	128	107	78.9	57.6	46.0	38.6	65.2	1974
1975	33.9	29.1	26.3	25.3	36.7	80.9	118	118	91.8	83.3	77.0	63.7	65.6	1975
1976	50.0	39.6	32.3	29.9	32.4	37.5	59.9	79.8	77.4	61.9	53.3	46.0	50.1	1976
1977	39.1	32.9	29.0	34.9	53.7	81.2	105	89.5	82.2	84.4	84.2	82.5	66.8	1977
1978	69.2	55.8	42.2	36.3	52.4	68.8	80.5	86.5	76.2	90.3	96.6	92.5	70.7	1978
1979	77.6	68.6	49.0	37.7	50.5	134	168	141	103	77.9	61.5	48.4	84.9	1979
1980	41.0	35.1	30.3	29.3	35.5	31.7	33.5	32.8	61.4	93.7	99.8	89.9	51.2	1980
1981	71.4	54.1	42.0	34.4	55.8	74.1	75.1	76.8	55.6	49.6	52.5	55.3	58.1	1981
1982	55.9	50.4	41.5	34.6	77.7	115	112	94.6	74.1	58.8	49.7	46.3	67.6	1982
MEAN	55.8	46.3	37.6	34.0	58.6	103	115	100	85.7	77.1	73.0	65.6	70.9	MEAN

LOCATION - LAT 55 44 35 N
LONG 97 00 00 W

DRAINAGE AREA, 15 400 km^2
NATURAL FLOW

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 05TD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	---	---	---	1959
1960	---	136 E ON JUN 26	25.3 ON DEC 31	1 880 000	1960
1961	---	48.4 ON MAY 30	15.0E ON APR 21	780 000	1961
1962	132 AT 16:20 CST ON JUN 20	122 ON JUN 28	12.7E ON APR 11 *	1 510 000	1962
1963	147 AT 13:30 CST ON JUN 23	140 ON JUN 26	26.3 ON MAR 21	1 970 000	1963
1964	---	106 ON NOV 17	20.8A ON MAR 19	1 960 000	1964
1965	---	215 E ON JUL 1	38.5 ON APR 26	3 550 000	1965
1966	---	246 ON JUL 21 *	39.6 ON APR 26	3 790 000	1966
1967	---	134 ON JUN 26	35.1E ON MAY 2	2 230 000	1967
1958	---	150 E ON JUL 9	26.3A ON APR 25	2 570 000	1968
1969	---	129 ON NOV 3	41.3 ON APR 11	2 670 000	1969
1970	---	162 E ON JUL 12	36.2 ON APR 17	2 790 000	1970
1971	125 AT 16:13 CST ON JUL 14	124 ON JUL 13	40.2 ON APR 19	2 570 000	1971
1972	152 AT 11:46 CST ON JUL 18	151 ON JUL 18	37.4 ON APR 24	2 960 000	1972
1973	98.0 AT 13:00 CST ON AUG 26	90.0 ON AUG 29	38.5A ON APR 19	1 900 000	1973
1974	140 AT 17:00 CST ON JUL 12	135 ON JUN 29	29.4 ON APR 24	2 050 000	1974
1975	132 AT 13:15 CST ON JUL 26	129 ON JUL 26	25.0 ON APR 13	2 070 000	1975
1976	88.9 AT 12:30 CST ON AUG 18	84.4 ON SEP 8	28.6 ON APR 5	1 580 000	1976
1977	117 AT 10:15 CST ON JUL 13	112 ON JUL 13	28.0 ON MAR 31	2 110 000	1977
1978	106 AT 12:45 CST ON NOV 3	99.1 ON NOV 1	35.1 ON APR 22	2 230 000	1978
1979	178 AT 15:00 CST ON JUL 16 *	173 ON JUL 16	36.1 ON APR 18	2 680 000	1979
1980	103 AT 18:15 CST ON OCT 30	103 ON OCT 30	26.9 ON APR 13	1 620 000	1980
1981	90.0 AT 12:30 CST ON JUL 9	84.5 ON JUL 9	32.1 ON APR 26	1 830 000	1981
1982	125 AT 11:50 CST ON JUN 26	122 ON JUN 25	32.8 ON APR 23	2 130 000	1982
				2 240 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX) E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	11.2	6.22	6.22	5.64	4.93	4.91	---	1957
1958	5.18	5.28	5.90	8.32	13.3	13.8	10.3	7.47	6.60	7.05	6.94	6.80	8.09	1958
1959	7.24	6.86	6.57	6.59	14.8	23.8	22.9	15.0	12.9	12.3	11.4	11.5	12.7	1959
1960	10.8	10.0	9.29	9.68	12.7	23.2	18.0	12.1	8.21	5.26	4.68	4.12	10.7	1960
1961	4.87	4.72	4.83	5.06	5.97	5.32	5.39	3.97	2.14	1.65	1.71	2.11	3.98	1961
1962	2.16	2.68	3.20	3.35	8.19	16.0	11.6	9.67	7.92	6.31	6.12	5.16	6.88	1962
1963	5.08	5.04	4.82	6.49	10.8	18.5	17.3	11.9	9.81	8.50	8.41	7.90	9.57	1963
1964	8.27	7.47	6.78	6.37	8.57	7.88	7.02	8.51	13.4	19.2	20.9	18.1	11.0	1964
1965	16.3	14.1	12.9	11.0	19.6	33.7	27.9	19.2	15.4	13.8	12.6	12.4	17.4	1965
1966	11.7	10.6	9.56	8.78	12.3	29.2	45.3	42.7	31.1	23.5	19.2	17.5	21.9	1966
1967	15.1	13.1	11.2	10.8	12.5	18.3	19.0	18.1	12.5	9.78	9.32	9.29	13.3	1967
1968	8.74	8.86	8.45	8.44	12.7	17.8	18.3	13.4	13.3	12.7	13.0	13.0	12.4	1968
1969	11.6	11.0	10.1	11.2	14.3	12.8	10.1	9.08	8.65	12.9	14.3	14.2	11.7	1969
1970	12.3	10.8	9.92	9.37	13.2	17.0	29.0	25.1	19.4	15.1	17.1	15.8	16.2	1970
1971	14.2	12.5	11.0	10.8	15.7	15.9	14.5	11.2	8.76	8.81	10.7	12.4	12.2	1971
1972	11.9	11.3	10.3	9.58	16.5	20.9	26.6	23.3	17.6	17.3	16.5	14.6	16.4	1972
1973	13.9	12.0	11.1	10.1	16.5	24.6	22.7	18.0	13.4	9.80	8.80	8.67	14.1	1973
1974	8.36	8.33	8.13	8.87	15.1	19.5	16.1	10.7	8.35	6.81	6.37	6.11	10.2	1974
1975	6.44	6.47	6.31	6.47	9.17	17.3	20.2	16.2	11.6	10.0	8.81	7.82	10.6	1975
1976	7.68	7.50	6.93	6.85	6.77	8.31	12.2	12.6	11.4	10.0	9.24	8.86	9.04	1976
1977	8.42	8.02	7.55	7.89	9.04	9.80	11.9	15.0	16.6	14.9	16.2	14.7	11.7	1977
1978	13.2	11.3	9.92	9.74	11.5	12.1	12.3	10.9	10.2	12.5	13.9	12.9	11.7	1978
1979	12.1	10.9	10.0	9.70	16.4	28.3	23.6	15.5	11.2	9.71	9.11	8.73	13.8	1979
1980	8.24	8.26	7.59	7.25	7.18	6.59	5.50	4.48	5.80	8.43	9.57	9.39	7.35	1980
1981	9.32	8.57	8.12	7.52	8.35	9.25	9.45	6.45	4.93	5.23	6.82	7.07	7.59	1981
1982	7.03	6.79	6.67	7.05	10.6	13.5	11.8	9.32	7.32	6.22	5.39	5.54	8.11	1982
MEAN	9.61	8.90	8.29	8.29	12.1	16.9	16.9	13.8	11.3	10.5	10.5	9.98	11.5	MEAN

LOCATION - LAT 54 47 20 N DRAINAGE AREA, 3 290 km^2
LONG 99 58 10 W NATURAL FLOW

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	16.3 ON JUN 13	4.73 ON JAN 11	255 000	1958
1959	---	27.7 ON JUL 6	6.37 ON MAR 4	400 000	1959
1960	---	25.6 E ON JUN 12	3.82 ON DEC 22	338 000	1960
1961	---	8.64 ON MAY 21	1.30 ON OCT 11 *	125 000	1961
1962	---	21.8 ON JUN 16	1.93 ON JAN 3	217 000	1962
1963	---	20.3 ON JUN 30	4.13 ON APR 21	302 000	1963
1964	---	21.4 ON OCT 24	5.72 ON APR 25	349 000	1964
1965	---	34.8 E ON JUN 11	10.6 ON APR 22	549 000	1965
1966	---	50.1 ON JUL 8 *	8.35 ON APR 15	689 000	1966
1967	---	19.9 ON JUL 7	8.78 ON DEC 27	418 000	1967
1968	---	20.8 ON JUL 18	7.99A ON APR 3	392 000	1968
1969	---	15.0 E ON MAY 20	8.10 ON SEP 3	369 000	1969
1970	33.7 AT 18:00 CST ON JUL 7 *	32.8 ON JUL 7	9.12 ON APR 21	512 000	1970
1971	18.7 AT 13:00 CST ON JUN 1	17.4 ON JUN 2	7.84 ON SEP 25	384 000	1971
1972	30.6 AT 17:00 CST ON JUL 10	28.6 ON JUL 9	9.00 ON APR 22	519 000	1972
1973	28.3 AT 18:46 CST ON JUN 23	27.8 ON JUN 24	8.52 ON DEC 4	446 000	1973
1974	20.9 AT 16:05 CST ON JUN 5	20.6 ON JUN 14	5.92 ON DEC 12	323 000	1974
1975	24.1 AT 15:30 CST ON JUN 29	22.5 ON JUL 4	5.97 ON APR 2	334 000	1975
1976	14.9 AT 17:16 CST ON AUG 2	14.4 ON AUG 2	6.34 ON MAY 31	286 000	1976
1977	18.2 AT 13:01 CST ON NOV 12	17.3 ON SEP 14	7.05 ON APR 6	368 000	1977
1978	15.6 AT 13:51 CST ON NOV 7	15.0 ON NOV 7	9.37 ON MAR 31	369 000	1978
1979	31.8 AT 17:06 CST ON JUN 8	29.7 ON JUN 8	8.44 ON DEC 17	434 000	1979
1980	10.1 AT 05:51 CST ON OCT 30	9.90 ON NOV 18	4.09 ON AUG 20	233 000	1980
1981	12.4 AT 14:04 CST ON JUL 8	11.6 ON JUN 30	4.17 ON OCT 7	239 000	1981
1982	14.3 AT 12:26 CST ON JUN 24	14.0 ON JUN 24	5.03 ON NOV 17	256 000	1982
				364 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASSMERE DRAIN NEAR MIDDLECHURCH - STATION NO. 05OJ017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	1.01	2.21	0.185	---	---	---	---	---	---	1963
1964	---	---	0	1.22	0.082	0.118	---	---	---	0.038	---	---	---	1964
1965	---	---	0	6.05	0.607	0.125	0.064	0.037	0.034	0.023	---	---	0.853	1965
1966	---	---	0.005	4.20	0.876	0.132	0.216	0.065	0.019	0.009	---	---	0.681	1966
1967	---	---	0.027	3.58	0.582	0.064	0.066	0.001	0.001	0	---	---	0.532	1967
1968	---	---	0.454	0.553	0.161	0.098	0.613	1.64	0.693	0.449	---	---	0.585	1968
1969	---	---	0	5.73	0.546	0.673	1.82	0.895	0.306	0.155	---	---	1.25	1969
1970	---	---	0	9.36	1.32	0.495	0.660	0.170	0.213	0.113	---	---	1.52	1970
1971	---	---	0	6.40	0.253	0.107	0.162	0.095	0.015	0.013	---	---	0.865	1971
1972	---	---	0.111	5.88	0.044	0.019	0.014	0.026	0.013	0.015	---	---	0.751	1972
1973	---	---	1.52	0.018	0.006	0.052	0.011	0.006	0.013	0.028	---	---	0.209	1973
1974	---	---	0	13.5	4.98	0.405	0.111	0.061	0.045	0.061	---	---	2.42	1974
1975	---	---	0	1.44	0.087	0.025	0.003	0.002	0	0.011	---	---	0.192	1975
1976	---	---	0	4.47	0.010	0.096	0.011	0.001	0	0	---	---	0.562	1976
1977	---	---	0.012	0.290	0.073	0.087	0.017	0.001	0.266	0.076	---	---	0.101	1977
1978	---	---	0	6.45	0.252	0.081	0.033	0.008	0.033	0.015	---	---	0.843	1978
1979	---	---	0	14.5	2.39	0.167	0.026	0.013	0.003	0.003	---	---	2.10	1979
1980	---	---	0	1.14	0.019	0.007	0	0	0	0.007	---	---	0.144	1980
1981	---	---	0.496	0.037	0.021	0.045	0.014	0.035	0.006	0.031	---	---	0.086	1981
1982	---	---	0.438	2.51	0.044	0.059	0.031	0.009	0.016	0.049	---	---	0.389	1982
MEAN	---	---	0.161	4.62	0.668	0.253	0.214	0.170	0.093	0.058	---	---	0.782	MEAN

LOCATION - LAT 50 00 08 N   DRAINAGE AREA, 471 km^2
LONG 97 07 01 W   NATURAL FLOW

GRASSMERE DRAIN NEAR MIDDLECHURCH - STATION NO. 05OJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	3.94B ON APR 15	0B ON MAR 1 *	---	1964
1965	---	21.9 ON APR 15	0B ON MAR 1	18 100	1965
1966	---	16.1 B ON APR 12	0B ON MAR 1	14 400	1966
1967	---	11.4 B ON APR 21	0B ON MAR 1	11 300	1967
1968	---	19.1 ON AUG 25	0B ON MAR 1	12 400	1968
1969	---	24.7 B ON APR 10	0B ON MAR 1	26 500	1969
1970	---	26.9 B ON APR 25	0B ON MAR 1	32 200	1970
1971	22.4 AT 21:29 CST ON APR 19	21.8 ON APR 11	0B ON MAR 1	18 300	1971
1972	28.9 B AT 15:10 CST ON APR 15	27.3 B ON APR 15	0B ON MAR 1	16 000	1972
1973	6.68B AT 15:16 CST ON MAR 23	5.72B ON MAR 23	0B ON MAR 1	4 430	1973
1974	51.3 AT 17:22 CST ON APR 21 *	50.1 ON APR 21	0B ON MAR 1	51 200	1974
1975	4.08 AT 06:05 CST ON APR 23	3.65 ON APR 23	0B ON MAR 1	4 070	1975
1976	---	24.1 B ON APR 7	0B ON MAR 1	11 900	1976
1977	2.49 AT 07:00 CST ON APR 10	2.21 ON APR 10	0B ON MAR 1	2 140	1977
1978	---	17.9 B ON APR 12	0B ON MAR 1	17 800	1978
1979	---	50.7 ON APR 21 *	0B ON MAR 1	44 400	1979
1980	6.25 AT 22:10 CST ON APR 11	4.72B ON APR 12	0B ON MAR 1	3 050	1980
1981	---	1.36B ON MAR 24	0B ON MAR 1	1 830	1981
1982	---	14.6 B ON APR 13	0B ON MAR 1	8 230	1982
				16 600	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	21.9	15.7	9.88	6.27	---	---	---	---	1971
1972	---	---	---	---	---	32.1	18.4	9.40	5.19	4.53	3.76	2.78	---	1972
1973	2.57	2.20	3.02	10.0	34.0	34.8	31.1	12.6	7.12	17.5	14.5	11.9	15.2	1973
1974	9.32	5.80	4.92	17.6	74.8	46.8	---	---	---	---	---	---	---	1974
1975	2.49	2.27	2.30	---	---	---	37.0	23.4	20.3	19.3	15.4	7.28	---	1975
1976	5.22	4.46	3.96	11.2	9.24	15.8	20.0	8.81	4.79	4.28	3.30	2.64	7.82	1976
1977	2.41	2.21	2.05	9.56	19.6	18.4	18.4	21.2	29.0	21.6	16.8	8.75	14.2	1977
1978	5.48	3.59	2.93	7.24	18.9	11.5	8.81	---	6.25	14.0	20.9	11.4	---	1978
1979	6.36	4.73	3.97	7.17	59.0	---	---	20.8	13.1	16.0	20.9	13.7	---	1979
1980	8.29	6.04	4.92	15.2	27.0	13.5	5.78	4.23	8.78	14.9	8.36	5.45	10.2	1980
1981	3.83	2.92	2.17	3.92	16.7	20.2	20.5	18.0	16.0	26.2	33.9	21.3	15.5	1981
1982	11.4	6.50	4.12	---	---	49.7	30.8	20.0	12.2	24.8	20.9	13.7	---	1982
MEAN	5.74	4.07	3.44	10.2	32.4	26.5	20.6	14.8	11.7	16.3	15.9	9.89	12.6	MEAN

LOCATION - LAT 53 47 10 N DRAINAGE AREA, 4 400 km²
LONG 97 40 20 W NATURAL FLOW

REMARKS - DISCHARGE RECORDS PRIOR TO JUN 1972 WERE OBTAINED AT LAT. 53 48 30 LONG. 097 42 40, AT FIRST PITCH ABOVE DIAMOND RAPIDS

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	44.2 ON JUL 8	2.15B ON FEB 19	479 000	1973
1974	93.4 AT 19:10 CST ON APR 30 *	92.6 ON MAY 1 *	---	---	1974
1975	---	---	---	---	1975
1976	36.0 AT 14:00 CST ON JUN 29	35.7 ON JUN 29	2.51B ON DEC 31	247 000	1976
1977	---	32.3 ON SEP 4	1.93B ON APR 6	448 000	1977
1978	30.0 AT 14:00 CST ON APR 28	29.4 ON APR 28	2.92B ON MAR 5	---	1978
1979	---	---	3.62B ON APR 6	---	1979
1980	---	39.4E ON APR 25	2.41 ON AUG 20	323 000	1980
1981	40.8 AT 12:30 CST ON NOV 6	39.7 ON NOV 6	1.79B ON APR 4 *	490 000	1981
1982	---	---	3.53B ON APR 4	---	1982
MEAN				397 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

HALES CREEK NEAR HARDING - STATION NO. 05MG011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	0	0	0	2.82	0.140	0.043	0	0.020	0.405	0.015	0.007	0	0.284	1975
1976	0	0	0	3.80	0.028	0.186	0.003	0	0	0	0	0	0.329	1976
1977	0	0	0.017	0.015	0.006	0.001	0.015	0.003	0.002	0.001	0.004	0.001	0.005	1977
MEAN	0	0	0.006	2.21	0.058	0.077	0.006	0.008	0.135	0.005	0.004	0	0.206	MEAN

LOCATION - LAT 49 54 46 N DRAINAGE AREA, 110 km²
LONG 100 30 26 W NATURAL FLOW

HALES CREEK NEAR HARDING - STATION NO. 05MG011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1975	47.6 AT 17:55 CST ON APR 27 *	21.3 ON APR 28	0B ON JAN 1 *	8 960	1975
1976	---	23.3 B ON APR 9 *	0B ON JAN 1	10 400	1976
1977	0.292 AT 02:40 CST ON JUL 14	0.127 ON JUL 13	0B ON JAN 1	171	1977
MEAN				6 510	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0	0.008	0	0	0.013	0	0	0	---	---	0.003	1961
1962	---	---	0	0.088	0	0	0	0	0	0	---	---	0.011	1962
1963	---	---	0.088	0.017	0	0.034	0.015	0	0	0	---	---	0.019	1963
1964	---	---	0	0.062	0.024	0	0.006	0	0	0	---	---	0.011	1964
1965	---	---	0	0.053	0.009	0.002	0	0	0	0	---	---	0.008	1965
1966	---	---	0.001	0.058	0.030	0.001	0	0	0	0	---	---	0.011	1966
1967	---	---	0	0.294	0.117	0.005	0	0	0	0	---	---	0.051	1967
1968	---	---	0.023	0.015	0	0	0	0	0	0	---	---	0.005	1968
1969	---	---	0	0.604	0.024	0	0	0	0	0	---	---	0.077	1969
1970	---	---	0	0.149	0.075	0.001	0	0	0	0	---	---	0.028	1970
1971	---	---	0	0.043	0	0.104	0.025	0	0	0	---	---	0.021	1971
1972	---	---	0.013	0.131	0.019	0	0	0	0	0	---	---	0.020	1972
1973	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.235	0.031	0	0	0	0	0	---	---	0.033	1974
1975	---	---	0	0.226	0.205	0	0	0	0	0	---	---	0.054	1975
1976	---	---	0	0.544	0.008	0	0	0	0	0	---	---	0.068	1976
MEAN	---	---	0.008	0.158	0.034	0.009	0.004	0	0	0	---	---	0.026	MEAN

LOCATION - LAT 50 10 50 N DRAINAGE AREA, 48.2 km²
LONG 100 33 30 W NATURAL FLOW

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	0.402 ON JUL 20	0 ON MAR 1 *	54.5	1961
1962	---	1.19 ON APR 18	0 ON MAR 1	228	1962
1963	---	0.714 ON MAR 29	0B ON MAR 1	408	1963
1964	---	0.261 ON APR 15	0 ON MAR 1	241	1964
1965	---	0.490B ON APR 12	0B ON MAR 1	168	1965
1966	---	0.181 ON APR 22	0B ON MAR 1	238	1966
1967	---	1.27 B ON APR 17	0B ON MAR 1	1 090	1967
1968	---	0.193B ON MAR 27	0B ON MAR 1	99.1	1968
1969	---	1.57 ON APR 13 *	0B ON MAR 1	1 620	1969
1970	---	0.643B ON APR 12	0B ON MAR 1	589	1970
1971	---	0.558 ON JUN 9	0B ON MAR 1	447	1971
1972	---	0.368 ON APR 9	0B ON MAR 1	426	1972
1973	---	0.014B ON MAR 9	0B ON MAR 1	3.80	1973
1974	---	0.915 ON APR 20	0B ON MAR 1	692	1974
1975	---	0.824 ON APR 28	0B ON MAR 1	1 140	1975
1976	---	1.48 ON APR 17	0B ON MAR 1	1 430	1976
				555	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO. 04AA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	15.8	24.3	37.0	40.5	34.7	18.1	9.52	4.94	4.41	---	1957
1958	4.58	4.64	5.96	8.89	14.6	26.2	27.6	26.3	25.0	30.1	32.1	26.5	19.5	1958
1959	21.6	22.2	24.5	30.5	74.2	141	155	111	147	141	110	91.7	89.4	1959
1960	75.1	60.6	49.8	48.7	72.2	93.8	80.7	58.4	43.7	35.1	25.5	17.9	55.1	1960
1961	14.2	12.3	11.7	17.0	40.7	46.1	38.1	27.5	23.7	25.0	26.3	---	---	1961
1962	---	---	---	---	37.8	58.4	48.6	29.5	28.6	29.7	27.9	---	---	1962
1963	---	---	---	---	67.6	93.5	69.2	41.2	29.0	25.6	18.3	12.1	---	1963
1964	9.90	9.16	9.06	9.22	36.4	67.2	40.5	26.3	25.4	18.4	22.0	---	---	1964
1965	---	---	---	21.4	55.7	119	126	88.2	65.6	66.4	59.6	48.2	---	1965
1966	36.7	28.8	24.3	23.4	41.9	115	180	109	78.5	59.5	46.1	39.8	65.6	1966
1967	35.4	29.3	20.3	23.9	34.3	162	130	68.5	43.0	34.9	27.0	27.6	53.1	1967
1968	29.1	19.5	24.3	26.1	38.3	85.1	91.1	86.5	73.1	76.9	70.6	54.8	56.4	1968
1969	46.1	44.9	57.3	57.7	58.7	56.3	43.3	34.2	40.8	62.9	61.0	56.1	51.6	1969
1970	48.9	42.4	41.9	42.3	48.5	62.3	74.7	67.8	56.1	55.4	71.9	68.4	56.8	1970
1971	65.4	61.4	54.2	52.2	71.0	72.1	61.6	53.7	45.7	36.9	40.2	49.7	55.3	1971
1972	60.4	51.8	41.9	43.7	71.2	80.5	66.2	54.4	43.3	36.8	25.2	16.1	49.3	1972
1973	13.8	10.8	15.8	23.6	35.7	48.9	48.9	44.8	39.7	41.7	42.9	37.3	33.8	1973
MEAN	35.5	30.6	29.3	29.6	48.4	80.3	77.8	56.6	48.6	46.2	41.9	39.3	53.3	MEAN

LOCATION - LAT 54 57 40 N DRAINAGE AREA, 8 420 km²
LONG 95 16 10 W NATURAL FLOW

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO. 04AA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	43.0 ON JUL 25	---	---	1957
1958	---	34.5 ON NOV 11	4.53B ON JAN 1 *	613 000	1958
1959	---	169 ON JUL 6	21.1 B ON JAN 17	2 820 000	1959
1960	---	98.8 ON JUN 13	15.7 B ON DEC 31	1 740 000	1960
1961	50.4 AT 00:30 EST ON JUN 15	47.6 ON JUN 7	11.4 B ON APR 11	---	1961
1962	68.8 AT 00:30 EST ON JUN 30	61.2 ON JUN 28	---	---	1962
1963	---	100 ON JUN 8	---	---	1963
1964	---	83.3 ON JUN 8	---	---	1964
1965	---	138 ON JUN 28	---	---	1965
1966	---	200 ON JUL 13 *	22.7 B ON APR 8	2 070 000	1966
1967	---	181 ON JUN 22	18.4 B ON MAR 13	1 670 000	1967
1968	---	104 ON JUL 31	13.3 ON FEB 18	1 790 000	1968
1969	---	69.9 ON OCT 18	23.2 ON AUG 13	1 630 000	1969
1970	78.4 AT 02:43 CST ON JUL 14	78.2 ON JUL 14	40.5 B ON FEB 11	1 790 000	1970
1971	83.8 AT 17:02 CST ON JUN 1 *	82.1 ON JUN 1	32.6 ON NOV 7	1 740 000	1971
1972	---	82.7E ON JUN 3	14.4 ON DEC 14	1 560 000	1972
1973	54.4 AT 18:35 CST ON JUN 22	53.0 ON JUL 10	9.40B ON FEB 21	1 070 000	1973
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 680 000	MEAN

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	350	317	293	345	1 250	1 440	940	687	749	537	299	244	623	1974
1975	232	225	217	325	1 320	843	612	828	829	---	---	---	---	1975
1976	341	280	257	305	---	521	724	598	902	590	356	231	---	1976
1977	187	175	163	550	650	505	492	466	751	600	445	280	439	1977
1978	210	186	170	183	1 210	891	1 020	1 170	1 220	1 150	676	435	714	1978
1979	340	318	295	309	1 360	1 680	1 300	906	674	709	601	481	751	1979
1980	394	331	291	511	1 020	778	738	627	984	921	422	321	612	1980
1981	302	269	244	231	1 390	1 310	943	803	535	998	590	550	684	1981
1982	514	466	418	372	1 880	1 250	656	665	723	720	596	456	729	1982
MEAN	319	285	261	348	1 260	1 020	825	750	819	778	498	375	650	MEAN

LOCATION - LAT 56 25 55 N DRAINAGE AREA, 103 000 km^2
LONG 92 47 19 W NATURAL FLOW

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	1 870E ON JUN 10	235B ON DEC 31	19 600 000	1974
1975	---	---	---	---	1975
1976	---	---	197B ON DEC 31	---	1976
1977	---	1 180B ON APR 25	157B ON MAR 31 *	13 900 000	1977
1978	---	2 320E ON MAY 15	165B ON MAR 23	22 500 000	1978
1979	---	2 520E ON MAY 27	278B ON APR 7	23 700 000	1979
1980	---	1 640B ON MAY 3	279B ON APR 3	19 400 000	1980
1981	---	2 910B ON MAY 19	228B ON APR 19	21 600 000	1981
1982	---	3 050B ON MAY 5 *	350B ON APR 27	23 000 000	1982
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		20 500 000	MEAN

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	28.1	21.1	23.4	37.4	62.7	96.7	80.5	65.6	53.0	47.5	41.1	30.3	49.1	1974
1975	15.9	16.6	18.4	24.1	48.0	54.6	46.4	38.1	33.6	34.4	31.6	19.6	31.9	1975
1976	15.7	14.3	13.2	21.8	26.3	21.8	19.3	19.5	23.0	19.8	15.0	12.3	18.5	1976
1977	11.2	10.7	12.0	24.4	43.4	44.2	41.4	37.4	38.5	43.3	40.0	25.7	31.1	1977
1978	20.3	17.6	16.5	20.9	46.9	47.3	41.8	---	---	47.4	47.2	36.7	---	1978
1979	28.5	22.8	18.3	15.4	50.7	158	128	79.4	51.5	44.5	47.2	39.1	57.1	1979
1980	30.7	26.0	24.3	32.1	42.2	38.4	29.3	26.3	36.6	50.1	45.1R	30.1R	34.3R	1980
1981	25.0	23.3	22.6	22.6	46.5	64.2	72.2	53.7	37.6	39.6	50.9	40.9	41.7	1981
1982	31.6	28.4	26.0	28.7	71.6	78.5	57.8	58.9	63.8	57.0	50.9	40.2	49.6	1982
MEAN	23.0	20.1	19.4	25.3	48.7	67.1	57.4	47.4	42.2	42.6	41.0R	30.5R	39.2	MEAN

LOCATION - LAT 54 51 23 N DRAINAGE AREA, 8 880 km^2 R - REVISED SINCE JAN 1980
LONG 95 07 12 W NATURAL FLOW

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	110 AT 14:30 CST ON JUN 30	104 ON JUN 29	19.5B ON FEB 16	1 550 000	1974
1975	63.4 AT 01:00 CST ON JUN 14	56.4 ON JUN 11	14.9B ON JAN 19	1 010 000	1975
1976	---	29.2 ON APR 23	11.6B ON DEC 30	585 000	1976
1977	52.4 AT 14:52 CST ON JUN 10	50.1 ON MAY 21	10.5B ON FEB 23 *	981 000	1977
1978	58.9 AT 19:20 CST ON NOV 1	57.8 ON NOV 1	16.5B ON MAR 3	---	1978
1979	175 AT 23:00 CST ON JUN 17 *	173 ON JUN 17 *	14.6B ON APR 27	1 800 000	1979
1980	57.6 AT 11:10 CST ON OCT 27	55.2 ON OCT 27	20.4 ON AUG 20	1 080 000R	1980
1981	89.1 AT 17:08 CST ON JUL 9	86.2 ON JUL 9	22.0B ON APR 18	1 320 000	1981
1982	86.2 AT 04:07 CST ON JUN 7	84.8 ON JUN 7	24.6B ON APR 8	1 560 000	1982
				1 240 000R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

HESPELER FLOODWAY NEAR ROSENFELD - STATION NO. 05OC016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	1.52	0.663	0.305	0.029	0.025	2.12	1.77	0.065	---	---	0.813	1968
1969	---	---	0	14.3	0.409	0.582	1.50	0.026	0	0.008	---	---	2.07	1969
1970	---	---	0	16.2	4.76	4.62	2.13	0.290	0.006	0.027	---	---	3.46	1970
1971	---	---	0	21.9	0.165	0.311	0.077	0.006	0	0.009	---	---	2.76	1971
1972	---	---	1.54	3.58	0.233	0.047	0	0	0	0	---	---	0.669	1972
1973	---	---	0.573	0.028	0.002	0.152	0.001	0	0.274	0.034	---	---	0.133	1973
1974	---	---	0	47.8	16.4	0.353	0.007	0	0	0	---	---	7.98	1974
1975	---	---	0	2.26	0.508	0.234	0.168	0.001	0	0	---	---	0.391	1975
1976	---	---	0	10.1	0.033	0.167	0.008	0.003	0.008	0	---	---	1.27	1976
1977	---	---	0.038	0.286	0.022	0.099	0.015	0	0.136	0.070	---	---	0.082	1977
1978	---	---	0.033	2.52	0.509	0.793	0.213	0	0.046	0	---	---	0.506	1978
1979	---	---	0	39.4	4.31	0.748	0.257	0.007	0.037	0.188	---	---	5.52	1979
1980	---	---	0	1.29	0.482	0.052	0.039	0.043	0.041	0.009	---	---	0.242	1980
1981	---	---	0.415	0.036	0.289	0.125	0.002	0	0	0	---	---	0.109	1981
1982	---	---	1.14	6.31	0.071	3.51	0.130	0.028	0	0.211	---	---	1.40	1982
MEAN	---	---	0.351	11.1	1.90	0.788	0.305	0.168	0.155	0.041	---	---	1.83	MEAN

LOCATION - LAT 49 15 10 N
LONG 97 33 00 W NATURAL FLOW

HESPELER FLOODWAY NEAR ROSENFELD - STATION NO. 05OC016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	17.8 B ON MAR 27	0B ON MAR 1 *	17 200	1968
1969	---	81.6 ON APR 11	0B ON MAR 1	43 800	1969
1970	---	68.8 ON APR 26	0B ON MAR 1	73 300	1970
1971	---	182 B ON APR 11	0B ON MAR 1	58 400	1971
1972	---	9.85B ON APR 15	0B ON MAR 1	14 200	1972
1973	---	6.29 ON SEP 24	0B ON MAR 1	2 820	1973
1974	---	254 ON APR 17	0B ON MAR 1	169 000	1974
1975	---	9.15B ON APR 17	0B ON MAR 1	8 280	1975
1976	---	55.8 B ON APR 6	0B ON MAR 1	26 900	1976
1977	---	1.27B ON APR 9	0B ON MAR 1	1 740	1977
1978	---	10.5 B ON APR 9	0B ON MAR 1	10 700	1978
1979	---	288 ON APR 20 *	0B ON MAR 1	117 000	1979
1980	14.4 AT 12:27 CST ON MAY 29 *	9.09 ON MAY 29	0B ON MAR 1	5 110	1980
1981	2.77 AT 01:55 CST ON MAY 26	2.23 ON MAY 26	0 ON APR 27	2 310	1981
1982	---	32.6 B ON APR 13	0B ON MAR 1	29 700	1982
				38 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05OA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	---	---	---	---	0	0	0	---	1961
1962	0	0	0	0.196	0.009	0.002	0	0	0	0	0	0	0.017	1962
1963	0	0	0.001	0	0	0.013	0	0	0	0	0	0	0.001	1963
1964	0	0	0	0.269	0.017	0.012	0.001	0.003	0.010	0.007	0	0	0.026	1964
1965	0	0	0	0.748	0.480	0.079	0.140	0.002	0	0	0	0	0.121	1965
1966	0	0	0.262	0.028	0.051	0.001	0.047	0.002	0	0	0	0	0.033	1966
1967	0	0	0.073	0.413	0.080	0	0	0	0	0	0	0	0.047	1967
1968	0	0	0.004	0.002	0.001	0	0	0.484	0.474	0.014	0.005	0.001	0.082	1968
1969	0	0	0	2.50	0.043	0.001	0.022	0	0	0	0	0	0.211	1969
1970	0	0	0.001	0.824	0.784	0.008	0.551	0.033	0.003	0	0	0	0.185	1970
1971	0	0	0	1.63	0.054	0.105	0.349	0.009	0	0	0	0	0.178	1971
1972	0	0	0.688	0.374	0.037	0.023	0.020	0.001	0	0	0	0	0.096	1972
1973	0	0	0.027	0.001	0.002	0.231	0.051	0	0.020	0.001	0	0	0.028	1973
1974	0	0	0	3.31	1.24	0.168	0	0	0	0	0	0	0.392	1974
1975	0	0	0	2.01	0.259	0.018	0.001	0	0	0	0	0	0.189	1975
1976	0	0	0.204	1.54	0.023	0	0	0	0	0	0	0	0.146	1976
1977	0	0	0	0.001	0	0	0	0	0	0	0	0	0	1977
1978	0	0	0	0.709	0.012	0	0	0	0	0	0	0	0.059	1978
1979	0	0	0	2.60	0.448	0.019	0	0	0	0	0	0	0.254	1979
1980	0	0	0	0.177	0.001	0	0	0	0.030	0.030	0.015	0	0.021	1980
1981	0	0.321	0.137	0.008	0.062	0.054	0.001	0	0	0	0	0	0.047	1981
1982	0	0	0.130	0.522	0.150	0.007	0	0	0	0.003	0.003	0.029	0.070	1982
MEAN	0	0.015	0.073	0.851	0.179	0.035	0.056	0.025	0.026	0.003	0.001	0.001	0.105	MEAN

LOCATION - LAT 48 57 10 N LONG 99 25 35 W   DRAINAGE AREA, 68.1 km^2 NATURAL FLOW   INTERNATIONAL GAUGING STATION

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05OA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	0 ON OCT 1 *	---	1961
1962	1.13 ON APR 6	0.991 ON APR 6	0 ON JAN 1	538	1962
1963	0.252 AT 19:30 CST ON JUL 25	0.074 ON JUN 25	0 ON JAN 1	37.1	1963
1964	0.906B ON APR 9	0.850B ON APR 9	0 ON JAN 1	832	1964
1965	3.51 AT 03:00 CST ON APR 11	3.26 ON APR 11	0 ON JAN 1	3 810	1965
1966	1.87 B AT 20:00 CST ON MAR 14	1.39 B ON MAR 15	0 ON JAN 1	1 050	1966
1967	3.62 AT 10:00 CST ON APR 21	2.44 ON APR 21	0B ON JAN 1	1 480	1967
1968	6.17 AT 14:30 CST ON AUG 24	3.82 ON AUG 25	0B ON JAN 1	2 600	1968
1969	19.8 B ON APR 12	17.0 B ON APR 12	0B ON JAN 1	6 670	1969
1970	8.98 AT 11:30 CST ON APR 29	8.04 ON APR 29	0B ON JAN 1	5 840	1970
1971	18.0 AT 23:00 CST ON APR 10	10.5 ON APR 10	0 ON JAN 1	5 600	1971
1972	10.0 AT 20:00 CST ON MAR 16	4.47 ON MAR 17	0 ON JAN 1	3 020	1972
1973	1.47 AT 08:00 CST ON JUN 20	1.27 ON JUN 21	0 ON JAN 1	870	1973
1974	30.0 AT 08:00 CST ON APR 21	23.6 ON APR 21	0 ON JAN 1	12 400	1974
1975	11.5 AT 22:00 CST ON APR 28	9.91 ON APR 14	0 ON JAN 1	5 970	1975
1976	9.34 AT 23:00 CST ON APR 1	6.23 ON MAR 31	0 ON JAN 1	4 610	1976
1977	---	0.003B ON APR 9	0B ON JAN 1	2.33	1977
1978	---	4.25 B ON APR 6	0B ON JAN 1	1 870	1978
1979	34.0 B AT 10:50 CST ON APR 23 *	28.3 B ON APR 23 *	0B ON JAN 1	8 000	1979
1980	2.55 AT 23:15 CST ON APR 3	1.64 ON APR 4	0B ON JAN 1	658	1980
1981	2.69 B AT 20:45 CST ON FEB 21	1.81 B ON FEB 21	0B ON JAN 1	1 470	1981
1982	---	2.61 ON MAR 31	0B ON JAN 1	2 210	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 310	MEAN

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	0.243	3.20	0.286	0.291	0.458	---	---	---	1958
1959	---	---	0.008	13.8	11.2	3.81	0.831	0.361	0.364	1.54	---	---	3.96	1959
1960	---	---	0.196	34.3	7.20	1.49	0.395	0.354	0.346	0.405	---	---	5.50	1960
1961	---	---	1.13	5.50	1.50	0.360	0.191	0.113	0.295	0.335	---	---	1.17	1961
1962	---	---	0.074	7.74	2.30	1.88	0.289	0.536	0.304	0.529	---	---	1.69	1962
1963	---	---	1.33	14.1	2 60	18.5	1.44	0.597	0.487	0.482	---	---	4.87	1963
1964	---	---	0.212	4.74	2.03	1.04	0.383	0.496	0.481	0.521	---	---	1.23	1964
1965	---	---	0.081	6.12	4.48	2.35	0.833	0.408	0.533	0.454	---	---	1.89	1965
1966	---	---	0.274	4.51	4.47	0.714	0.595	0.253	0.273	0.270	---	---	1.41	1966
1967	---	---	0.187	18.6	3.41	0.697	0.464	0.298	0.160	0.267	---	---	2.97	1967
1968	---	---	0.497	5.50	1.32	0.623	1.22	0.870	1.61	1.01	---	---	1.57	1968
1969	---	---	0.245	15.5	1.77	1.20	0.430	0.355	0.478	0.486	---	---	2.52	1969
1970	---	---	0.159	10.1	4.28	0.871	0.380	0.240	0.218	0.252	---	---	2.04	1970
1971	---	---	0.125	5.88	0.482	0.413	0.426	0.200	0.177	0.228	---	---	0.978	1971
1972	---	---	0.127	10.2	0.741	0.331	0.338	0.263	0.223	0.236	---	---	1.54	1972
1973	---	---	1.57	0.697	0.363	1.59	0.436	0.588	2.62	3.41	---	---	1.41	1973
1974	---	---	0.297	49.8	21.5	2.40	0.351	0.368	0.310	0.351	---	---	9.32	1974
1975	---	---	0.193	4.61	1.16	0.597	0.367	9.40	9.92	3.57	---	---	3.71	1975
1976	---	---	0.274	41.7	2.32	1.01	0.488	0.213	0.174	0.192	---	---	5.70	1976
1977	---	---	0.091	0.983	0.497	0.618	0.755	0.232	1.79	0.988	---	---	0.739	1977
1978	---	---	0.222	24.7	1.99	0.941	0.563	0.306	0.329	0.334	---	---	3.62	1978
1979	---	---	0.184	30.3	11.1	3.63	0.769	0.312	0.438	0.304	---	---	5.81	1979
1980	---	---	0.207	7.42	0.490	0.264	0.225	0.553	1.02	1.02	---	---	1.38	1980
1981	---	---	1.26	1.06	0.609	0.757	0.268	0.459	1.25	1.96	---	---	0.951	1981
1982	---	---	0.540	9.83	1.67	1.59	1.82	1.18	0.378	0.723	---	---	2.19	1982
MEAN	---	---	0.395	13.7	3.73	1.92	0.698	0.770	0.979	0.813	---	---	2.84	MEAN

LOCATION - LAT 50 57 35 N DRAINAGE AREA, 1 140 km²
LONG 97 02 10 W NATURAL FLOW

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	38.8 B ON APR 12	0 B ON MAR 1 *	83 800	1959
1960	---	104 ON APR 21	0.057 ON AUG 15	116 000	1960
1961	---	15.1 ON APR 22	0.071 ON MAR 1	24 700	1961
1962	---	49.8 B ON APR 22	0.071B ON MAR 1	35 800	1962
1963	---	73.6 B ON APR 9	0.142B ON MAR 1	103 000	1963
1964	---	15.7 B ON APR 16	0.204 ON AUG 9	26 000	1964
1965	---	34.3 B ON APR 14	0.057B ON MAR 1	40 100	1965
1966	---	20.6 ON MAY 5	0.110B ON MAR 1	30 000	1966
1967	---	83.3 B ON APR 16	0.091 ON JUL 28	62 800	1967
1968	---	18.0 B ON APR 9	0.181B ON MAR 1	33 300	1968
1969	---	85.0 B ON APR 13	0.170B ON APR 7	53 300	1969
1970	---	35.7 B ON APR 19	0.136B ON APR 6	43 300	1970
1971	---	41.3 ON APR 19	0.125B ON MAR 1	20 700	1971
1972	---	45.0 B ON APR 18	0.007 ON AUG 19	32 500	1972
1973	---	16.1 ON OCT 5	0.002 ON MAY 19	29 800	1973
1974	---	203 ON APR 20 *	0.181 ON AUG 10	197 000	1974
1975	---	52.1 ON AUG 26	0.142B ON MAR 1	78 500	1975
1976	---	123 ON APR 8	0.110 ON OCT 30	120 000	1976
1977	---	5.69 ON SEP 10	0.006B ON MAR 1	15 600	1977
1978	---	82.7 ON APR 18	0.161 ON AUG 29	76 500	1978
1979	---	156 ON APR 23	0.136B ON MAR 1	123 000	1979
1980	34.1 AT 20:52 CST ON APR 15	22.7 B ON APR 15	0.035 ON MAY 28	29 200	1980
1981	5.99 AT 20:45 CST ON SEP 7	5.12B ON MAR 31	0.072B ON MAR 10	20 100	1981
1982	51.6 AT 21:00 CST ON APR 16 *	45.1 ON APR 16	0.223 ON SEP 17	46 500	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		60 100	MEAN

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 04AC007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	16.7	15.1	14.4	45.2	74.7	67.2	53.6	43.7	44.5	53.8	56.0	---	1933
1934	53.6	49.5	42.3	39.1	70.9	211	207	141	103	107	104	85.7	101	1934
1935	71.6	59.9	50.7	48.2	84.8	96.5	87.6	70.4	68.0	90.3	111	99.8	78.4	1935
1936	79.9	61.6	50.5	39.9	36.5	110	154	109	77.0	65.1	57.8	52.5	74.6	1936
1937	45.4	39.9	33.7	31.4	124	252	231	157	113	107	112	103	113	1937
1938	82.0	66.3	54.0	47.5	96.0	145	157	136	104	78.2	60.8	53.4	90.2	1938
1939	45.4	38.2	32.8	29.3	36.6	82.8	145	124	89.9	73.7	68.8	62.5	69.4	1939
1940	56.1	47.3	39.3	33.9	59.3	87.7	89.7	73.8	55.5	50.7	49.8	47.3	57.6	1940
1941	44.0	40.7	37.6	36.0	115	162	141	101	68.1	56.6	47.9	42.0	74.6	1941
1942	40.0	38.2	36.5	37.4	55.9	68.6	73.7	85.1	92.1	80.7	69.4	62.3	61.8	1942
1943	55.3	49.7	40.8	35.3	71.5	107	108	89.0	82.5	84.9	74.8	65.7	72.2	1943
1944	56.0	48.1	39.1	32.4	43.3	54.4	70.6	67.0	71.0	81.2	78.4	70.7	59.4	1944
1945	61.8	53.2	44.5	43.1	68.4	148	217	187	139	121	106	92.8	107	1945
1946	70.8	58.7	48.3	48.8	91.9	111	149	162	120	96.5	87.4	74.0	93.5	1946
1947	65.2	56.7	46.6	37.6	62.4	168	237	189	164	153	127	98.8	118	1947
1948	80.6	63.2	51.6	42.5	58.1	59.7	53.7	53.2	43.4	32.7	28.8	25.3	49.4	1948
1949	23.7	22.6	20.4	20.2	43.2	74.3	87.2	94.8	110	193	206	174	89.5	1949
1950	134	99.9	74.6	59.7	75.7	177	216	212	158	122	109	91.5	128	1950
1951	74.8	61.9	52.7	47.3	99.5	124	117	128	147	167	153	119	108	1951
1952	88.0	69.3	54.6	52.2	109	164	219	233	211	191	168	139	142	1952
1953	104	79.0	63.4	54.7	80.6	125	225	186	128	96.8	89.9	82.0	110	1953
1954	72.4	60.9	50.8	41.9	52.5	105	125	101	77.1	72.1	73.0	70.9	75.3	1954
1955	63.2	54.5	46.5	50.0	123	156	173	155	122	114	108	96.1	106	1955
1956	81.3	68.5	57.9	48.4	59.1	156	149	98.9	69.8	54.4	59.3	62.0	80.4	1956
1957	58.2	50.9	46.3	41.8	99.7	136	169	136	102	76.8	61.1	52.0	86.1	1957
1958	44.9	39.9	35.5	43.0	82.9	125	115	104	85.0	76.1	77.5	79.1	75.9	1958
1959	70.4	59.1	48.5	43.1	141	284	276	203	144	115	101	87.8	132	1959
1960	73.5	62.0	51.4	46.3	73.4	144	122	83.5	75.0	66.0	59.5	54.3	76.0	1960
1961	45.5	37.4	31.8	30.0	45.5	60.3	54.7	44.9	35.8	31.7	38.8	43.2	41.7	1961
1962	42.3	37.2	31.5	28.2	60.1	119	103	73.5	59.6	55.8	56.8	60.3	60.7	1962
1963	58.1	51.9	46.9	44.3	95.8	164	145	103	88.0	75.7	66.3	59.0	83.3	1963
1964	52.2	44.3	40.8	39.1	114	157	123	91.8	69.9	58.7	52.1	48.3	74.4	1964
1965	44.7	37.1	33.6	33.6	74.3	---	---	---	---	175	158	142	---	1965
1966	131	123	99.3	88.0	97.2	169	201	157	128	103	91.2	81.1	123	1966
1967	69.4	60.5	48.3	48.6	87.4	274	260	205	132	94.9	76.2	68.3	119	1967
1968	62.2	56.5	45.4	38.5	85.6	164	181	181	158	141	129	111	113	1968
1969	86.9	69.2	56.5	52.9	78.9	89.8	82.8	97.6	147	222	209	163	113	1969
1970	123	94.2	69.2	57.3	84.3	117	155	138	104	106	126	126	109	1970
1971	106	87.9	71.5	65.2	140	180	169	139	95.1	69.9	65.1	60.9	104	1971
1972	55.5	47.8	40.5	35.7	94.2	128	107	87.6	66.2	57.2	52.7	49.4	68.6	1972
1973	46.3	41.7	37.7	38.3	87.2	146	154	122	85.3	84.2	95.2	90.9	86.0	1973
1974	72.9	63.0	59.3	52.3	79.2	133	118	108	84.0	69.5	61.6	57.6	80.0	1974
1975	58.0	53.0	47.8	42.8	73.5	147	144	135	134	130	109	88.2	97.1	1975
1976	75.7	63.4	53.5	49.4	57.0	---	---	---	---	40.5	30.9	29.8	---	1976
1977	30.5	30.2	29.7	31.8	51.8	57.8	59.2	74.2	79.4	81.4	73.4	65.6	55.6	1977
1978	57.3	50.0	44.5	45.3	67.6	81.6	79.7	77.2	75.7	103	132	122	78.1	1978
1979	96.0	75.1	62.4	57.2	102	210	208	175	128	113	118	107	121	1979
1980	88.6	74.2	63.0	---	---	---	72.7	58.5	52.4	60.9	63.9	60.5	---	1980
1981	55.8	48.2	42.6	38.3	47.6	64.8	85.2	77.6	61.2	63.8	74.2	76.5R	61.4R	1981
1982	70.6	61.8	54.1	---	---	126	132	128	104	87.9	82.0	81.4	---	1982
MEAN	67.8	56.5	47.5	43.0	78.8	134	142	121	99.0	93.8	89.3	79.8R	89.3	MEAN

LOCATION - LAT 54 03 34 N, LONG 94 39 34 W

DRAINAGE AREA, 14 000 km^2

NATURAL FLOW

R - REVISED SINCE JAN 1980

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 04AC007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1933	---	76.7 ON JUN 20	13.7 ON APR 10 *	---	1933
1934	---	227 ON JUN 19	37.9 ON APR 12	3 200 000	1934
1935	---	118 ON NOV 22	43.6 ON APR 18	2 470 000	1935
1936	---	164 ON JUL 7	29.4 ON MAY 24	2 360 000	1936
1937	---	273 ON JUN 26	28.9 ON APR 14	3 560 000	1937
1938	---	162 ON JUL 7	46.4 ON APR 13	2 850 000	1938
1939	---	157 ON JUL 18	28.1 ON APR 20	2 190 000	1939
1940	---	95.7 ON JUN 29	32.0 ON APR 22	1 820 000	1940
1941	---	172 ON JUN 7	34.0 ON APR 15	2 350 000	1941
1942	---	95.7 ON AUG 28	35.1 ON APR 6	1 950 000	1942
1943	---	111 ON JUN 21	31.1 ON APR 19	2 270 000	1943
1944	---	84.4 ON OCT 16	29.7 ON APR 23	1 880 000	1944
1945	---	224 ON JUL 19	42.2 ON MAR 23	3 380 000	1945
1946	---	179 ON JUL 30	43.6 ON APR 7	2 950 000	1946
1947	---	249 ON JUL 11	33.7 ON APR 28	3 710 000	1947
1948	---	86.9 ON JAN 1	24.3E ON DEC 31	1 560 000	1948
1949	---	216 ON OCT 30	18.9 ON APR 8	2 820 000	1949
1950	---	242 ON JUL 30	54.9 ON MAY 4	4 030 000	1950
1951	---	174 ON OCT 17	46.2 ON APR 22	3 410 000	1951
1952	---	247 ON AUG 4	46.7 ON APR 14	4 490 000	1952
1953	---	238 ON JUL 16	51.5 ON APR 22	3 470 000	1953
1954	---	128 ON JUL 7	37.4 ON MAY 7	2 370 000	1954
1955	---	183 ON JUL 19	41.9 ON APR 6	3 330 000	1955
1956	---	172 ON JUN 26	43.3 ON MAY 2	2 540 000	1956
1957	---	177 ON JUL 13	37.7 ON APR 19	2 710 000	1957
1958	---	129 ON JUN 18	33.4 ON MAR 30	2 390 000	1958
1959	---	300 ON JUN 30 *	41.3 ON APR 25	4 150 000	1959
1960	---	152 ON JUN 18	43.9 ON MAY 3	2 400 000	1960
1961	---	62.0 ON JUN 11	29.4 ON APR 16	1 310 000	1961
1962	---	125 ON JUN 16	27.0 ON APR 26	1 920 000	1962
1963	---	179 ON JUN 26	43.3 ON MAR 26	2 630 000	1963
1964	---	166 ON JUN 2	37.7 ON APR 9	2 350 000	1964
1965	---	---	32.8 ON MAR 22	---	1965
1966	---	212 ON JUL 5	75.3 ON DEC 30	3 870 000	1966
1967	---	292 E ON JUN 19	45.0 ON MAR 24	3 760 000	1967
1968	---	195 ON AUG 2	35.7 ON APR 15	3 570 000	1968
1969	237 AT 15:56 CST ON OCT 23 *	237 ON OCT 23	48.1 ON APR 14	3 570 000	1969
1970	165 AT 06:48 CST ON JUL 26	164 ON JUL 21	54.7 ON APR 22	3 420 000	1970
1971	---	187 ON JUN 8	59.5E ON DEC 21	3 290 000	1971
1972	138 AT 21:36 CST ON JUN 13	135 ON JUN 18	32.3 ON APR 14	2 170 000	1972
1973	160 AT 23:30 CST ON JUL 11	158 ON JUL 9	35.1 ON APR 3	2 710 000	1973
1974	140 AT 03:50 CST ON JUN 21	139 ON JUN 16	49.6 ON APR 25	2 520 000	1974
1975	166 AT 01:11 CST ON JUN 27	164 ON JUN 25	41.1 ON APR 16	3 060 000	1975
1976	---	---	---	---	1976
1977	83.0 AT 17:49 CST ON SEP 16	83.0 ON OCT 9	29.4E ON APR 5	1 750 000	1977
1978	137 AT 20:17 CST ON NOV 16	136 ON NOV 16	43.0 ON MAR 23	2 460 000	1978
1979	229 AT 18:30 CST ON JUN 27	228 ON JUN 28	53.8 ON APR 15	3 830 000	1979
1980	---	---	---	---	1980
1981	---	85.9E ON JUL 19	36.9 ON APR 19	1 940 000R	1981
1982	140 AT 18:30 CST ON JUN 23	138 ON JUN 23	---	---	1982
				2 820 000R	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO. 05MF022

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	0.379	0.299	0.004	0	0.003	0.003	0	0	---	1963
1964	0.007	0.011	0.011	0.306	0.449	0.083	0	0	0	0	0	0	0.066	1964
1965	0	0	0	0.057	0.636	0.253	0.020	0.193	0.531	0.192	0.061	0.054	0.167	1965
1966	0.030	0.027	0.025	0.223	0.810	0.281	0.104	0.038	0.013	0	0	0	0.130	1966
1967	0	0	0	0	0.638	0.095	0.014	0.003	0	0.001	0.005	0.007	0.065	1967
1968	0	0	0	0	0.397	0.293	0.278	0.084	0.414	0.055	0.046	0.033	0.134	1968
1969	0.022	0.027	0.028	0.179	0.177	0.458	0.782	0.068	0.028	0.037	0.062	0.029	0.159	1969
1970	0	0	0	0	1.19	0.301	0.158	0.0'9	0.028	0.063	0.265	0.111	0.179	1970
MEAN	0.008	0.009	0.009	0.109	0.585	0.248	0.169	0.051	0.127	0.044	0.055	0.029	0.129	MEAN

LOCATION - LAT 50 52 20 N   DRAINAGE AREA, 18.9 km²
LONG 100 02 48 W   NATURAL FLOW

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO. 05MF022

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	0B ON AUG 1 *	---	1963
1964	---	1.77 ON APR 28	0 ON JUL 1	2 070	1964
1965	---	1.39 ON MAY 2	0B ON JAN 1	5 270	1965
1966	---	1.30 ON MAY 19	0B ON SEP 23	4 100	1966
1967	---	1.83 ON MAY 20	0B ON JAN 1	2 040	1967
1968	---	2.34 ON MAY 25	0B ON JAN 1	4 220	1968
1969	---	2.60E ON JUN 29 *	0 ON MAY 7	5 010	1969
1970	---	2.29 ON MAY 18	0B ON JAN 1	5 640	1970
				4 050	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

JACKSON CREEK NEAR MELITA - STATION NO. 05NF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.058	---	---	---	---	---	---	---	---	1936
1975	---	---	0	2.68	1.86	0.713	0.085	0	0.052	0.558	---	---	0.737	1975
1976	---	---	0.005	16.9	0.915	0.044	0.027	0	0	0	---	---	2.28	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.006	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.244	0.343	0.003	0	0	0	0	---	---	0.074	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.173	0.009	0	0	0	0	0	---	---	0.022	1982
MEAN	---	---	0.001	2.50	0.354	0.095	0.014	0	0.007	0.069	---	---	0.379	MEAN

LOCATION - LAT 49 18 00 N   DRAINAGE AREA, 451 km^2
LONG 100 57 50 W   NATURAL FLOW

REMARKS - DAILY DISCHARGES PRIOR TO 1975 HAVE NOT BEEN PUBLISHED

JACKSON CREEK NEAR MELITA - STATION NO. 05NF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1975	---	10.6 ON APR 29	0B ON MAR 1 *	15 580	1975
1976	---	38.2 B ON APR 11 *	0 ON JUL 21	46 600	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0.045B ON APR 10	0B ON MAR 1	15.7	1978
1979	2.15 AT 06:00 CST ON APR 22 *	1.64 ON APR 22	0B ON MAR 1	1 560	1979
1980	---	0 B ON MAR 1	0B ON MAR 1	0	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	0.954 AT 10:00 CST ON APR 17	0.793 ON APR 17	0B ON MAR 1	472	1982
				8 030	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

JORDAN CREEK NEAR PLUMAS - STATION NO. 05LL008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.71	0.549	0.036	0	0	0	0	---	---	0.283	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.392	0.172	0.073	0	0	0	0	---	---	0.079	1962
1963	---	---	0.017	0.327	0.063	0.361	0.045	0	0	0	---	---	0.100	1963
1964	---	---	0	0.046	0.021	0.001	0	0	0	0	---	---	0.008	1964
1965	---	---	0	1.38	0.167	0.074	0.002	0	0.042	0.012	---	---	0.202	1965
1966	---	---	0.253	1.05	0.333	0.028	0.002	0.001	0	0	---	---	0.286	1966
1967	---	---	0	1.21	0.811	0.021	0	0	0	0	---	---	0.253	1967
1968	---	---	0.022	0.020	0.010	0.001	0	0.018	0.035	0.002	---	---	0.013	1968
1969	---	---	0	1.83	0.186	0.059	0.276	0.131	0.043	0.036	---	---	0.316	1969
1970	---	---	0	2.79	2.70	0.158	0.017	0	0	0	---	---	0.785	1970
1971	---	---	0	0.156	0.029	0.041	0.903	0.078	0.003	0.060	---	---	0.258	1971
1972	---	---	0.198	1.52	0.152	0.013	0	0	0	0	---	---	0.232	1972
1973	---	---	0.010	0.001	0.005	0.002	0	0	0	0	---	---	0.002	1973
1974	---	---	0	2.47	2.58	0.154	0	0	0	0	---	---	0.648	1974
1975	---	---	0	0.222	0.130	0.016	0.058	0.124	0.732	0.438	---	---	0.212	1975
1976	---	---	0	4.30	0.227	0.001	0.006	0	0	0	---	---	0.556	1976
1977	---	---	0	0	0.001	0	0.001	0	0.001	0.001	---	---	0.001	1977
1978	---	---	0	0.155	0.028	0.009	0.002	0	0	0	---	---	0.024	1978
1979	---	---	0	2.07	2.50	0.113	0.002	0	0	0	---	---	0.584	1979
1980	---	---	0	0.028	0	0	0	0.007	0.008	0.012	---	---	0.007	1980
1981	---	---	0.002	0.004	0.006	0.035	0.015	0	0	0.004	---	---	0.008	1981
1982	---	---	0.064	0.507	0.041	0.021	0.009	0.005	0	0.003	---	---	0.090	1982
MEAN	---	---	0.025	0.966	0.466	0.088	0.058	0.016	0.037	0.025	---	---	0.208	MEAN

LOCATION - LAT 50 23 25 N   DRAINAGE AREA, 49.7 km^2
LONG 99 02 44 W   NATURAL FLOW

JORDAN CREEK NEAR PLUMAS - STATION NO. 05LL006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	6.88 ON APR 16	0B ON MAR 1 *	5 990	1960
1961	---	0 ON MAR 1	0 ON MAR 1	0	1961
1962	---	2.02 B ON APR 21	0B ON MAR 1	1 660	1962
1963	---	1.60 ON JUN 10	0B ON MAR 1	2 120	1963
1964	---	0.294B ON APR 11	0B ON MAR 1	177	1964
1965	---	4.73 B ON APR 13	0B ON MAR 1	4 270	1965
1966	---	4.64 B ON APR 1	0B ON MAR 1	4 360	1966
1967	---	3.48 ON APR 29	0B ON MAR 1	5 350	1967
1968	---	0.323B ON MAR 28	0B ON MAR 1	284	1968
1969	---	6.40 ON APR 11	0B ON MAR 1	6 600	1969
1970	---	10.5 ON APR 29	0B ON MAR 1	14 900	1970
1971	---	3.06 ON JUN 21	0B ON MAR 1	5 460	1971
1972	---	4.33 B ON APR 13	0B ON MAR 1	4 920	1972
1973	---	0.031B ON MAR 20	0B ON MAR 1	85.9	1973
1974	---	11.0 ON APR 10 *	0B ON MAR 1	13 700	1974
1975	---	3.34 ON SEP 20	0B ON MAR 1	4 490	1975
1976	---	10.8 B ON APR 7	0B ON MAR 1	11 700	1976
1977	---	0.008 ON JUL 16	0B ON MAR 1	10.7	1977
1978	---	0.507B ON APR 16	0B ON MAR 1	506	1978
1979	8.16 AT 03:00 CST ON APR 30 *	7.99 ON APR 30	0B ON MAR 1	12 400	1979
1980	0.116 AT 11:27 CST ON AUG 23	0.085 ON APR 17	0B ON MAR 1	144	1980
1981	---	0.104 ON JUN 28	0B ON MAR 1	176	1981
1982	---	1.36 B ON APR 16	0B ON MAR 1	1 900	1982
				4 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.478	14.6	9.14	2.99	3.05	0.535	3.02	0.261	---	---	4.33	1966
1967	---	---	0.318	16.2	7.11	0.407	0.077	0.034	0.006	0.002	---	---	2.99	1967
1968	---	---	0.140	0.491	0.570	0.506	0.932	0.665	1.07	0.254	---	---	0.577	1968
1969	---	---	0.092	7.76	1.94	0.333	0.176	0.064	0.040	0.057	---	---	1.29	1969
1970	---	---	0.028	6.75	12.9	5.25	0.239	0.002	0.055	0.119	---	---	3.16	1970
1971	---	---	0	3.02	0.815	0.056	0.030	0.016	0.003	0.050	---	---	0.494	1971
1972	---	---	0.270	0.670	0.334	0.064	0.010	0.019	0.007	0.061	---	---	0.180	1972
1973	---	---	0.297	0.124	0.096	0.044	0.019	0.002	0.020	0.153	---	---	0.095	1973
1974	---	---	0	11.1	13.1	3.94	0.193	0.030	0.016	0.044	---	---	3.54	1974
1975	---	---	0.003	0.256	0.277	0.417	1.02	0.017	0.007	0.016	---	---	0.262	1975
1976	---	---	0.005	0.547	0.008	0.199	0.010	0	0	0	---	---	0.104	1976
1977	---	---	0.037	0.131	0.033	0.026	0.006	0.003	0.007	0.025	---	---	0.033	1977
1978	---	---	0.131	2.46	0.674	0.061	0.026	0.001	0	0	---	---	0.415	1978
1979	---	---	0.009	3.10	3.06	1.31	0.163	0.024	0.019	0.030	---	---	0.969	1979
1980	---	---	0.050	1.06	0.073	0.002	0	0.001	0.002	0.031	---	---	0.150	1980
1981	---	---	0.147	0.180	0.126	0.096	0.027	0.002	0.001	0.100	---	---	0.080	1981
1982	---	---	0.205	3.20	0.925	1.48	1.67	0.371	0.020	0.741	---	---	1.07	1982
MEAN	---	---	0.135	4.22	3.02	1.01	0.497	0.108	0.253	0.118	---	---	1.16	MEAN

LOCATION - LAT 49 26 26 N DRAINAGE AREA, 311 km^2
LONG 96 59 23 W NATURAL FLOW

REMARKS - PUBLISHED AS "JOUBERT CREEK AT ST. PIERRE" PRIOR TO 1979

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	20.3 ON APR 7	0 B ON MAR 1 *	91 600	1966
1967	---	27.2 ON APR 22	0 B ON MAR 1	63 300	1967
1968	---	4.16 ON MAY 15	0 B ON MAR 1	12 200	1968
1969	---	15.9 ON APR 19	0.020 ON AUG 10	27 300	1969
1970	---	19.6 ON APR 20	0.020B ON MAR 1	85 900	1970
1971	---	6.82 B ON APR 12	0 B ON MAR 1	10 400	1971
1972	---	1.89 B ON APR 16	0 B ON MAR 1	3 000	1972
1973	---	1.54 B ON MAR 13	0 B ON MAR 1	2 010	1973
1974	---	34.5 ON APR 23 *	0 B ON MAR 1	75 000	1974
1975	---	8.30 ON JUL 1	0.002 ON SEP 17	5 550	1975
1976	---	3.96 B ON APR 5	0 B ON MAR 1	2 210	1976
1977	---	0.430B ON MAR 30	0 ON JUL 1	701	1977
1978	---	5.30 B ON APR 10	0 ON AUG 9	8 700	1978
1979	16.4 AT 17:49 CST ON APR 20 *	15.4 ON APR 20	0 ON AUG 15	20 500	1979
1980	4.02 AT 17:02 CST ON APR 5	3.36 B ON APR 5	0 ON JUN 13	3 170	1980
1981	0.894 AT 04:03 CST ON MAY 29	0.664 ON MAY 29	0 ON JUN 12	1 600	1981
1982	---	6.60 B ON APR 15	0 ON OCT 2	22 700	1982
				24 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

KENTON CREEK AT KENTON - STATION NO. 05NG006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	0.269	0	0	0	0.010	0	0	---	---	0.034	1962
1963	---	---	0.169	0.027	0.020	0.232	0	0.008	0	0	---	---	0.057	1963
1964	---	---	0	0.249	0.011	0	0	0	0	0	---	---	0.032	1964
1965	---	---	0	0.760	0.001	0.001	0.354	0	0.005	0	---	---	0.139	1965
1966	---	---	0.133	0.098	0.037	0	0	0	0	0	---	---	0.039	1966
1967	---	---	0	0.367	0.008	0	0	0	0	0	---	---	0.046	1967
1968	---	---	0.132	0.005	0	0	0	0	0	0	---	---	0.017	1968
1969	---	---	0	1.26	0.009	0	0.003	0.001	0	0	---	---	0.155	1969
1970	---	---	0	0.591	0.023	0	0	0	0	0	---	---	0.075	1970
1971	---	---	0.009	0.061	0	0.124	0.002	0	0	0	---	---	0.024	1971
1972	---	---	0.250	0.281	0.002	0	0	0	0	0	---	---	0.066	1972
1973	---	---	0.014	0	0	0	0	0	0	0	---	---	0.002	1973
1974	---	---	0	0.862	0.049	0	0	0	0	0	---	---	0.112	1974
1975	---	---	0	0.808	0.059	0.012	0	0	0	0	---	---	0.108	1975
1976	---	---	0	1.08	0.003	0.010	0.001	0	0	0	---	---	0.139	1976
1977	---	---	0.004	0.002	0.001	0	0	0	0	0	---	---	0.001	1977
1978	---	---	0.047	0.122	0.003	0	0.001	0	0	0	---	---	0.021	1978
1979	---	---	0	0.595	0.026	0.001	0	0	0	0	---	---	0.076	1979
1980	---	---	0	0.027	0	0	0	0	0	0	---	---	0.003	1980
1981	---	---	0.008	0	0	0	0	0	0	0	---	---	0.001	1981
1982	---	---	0.008	0.155	0	0	0	0	0	0	---	---	0.020	1982
MEAN	---	---	0.037	0.363	0.012	0.010	0.017	0.001	0	0	---	---	0.055	MEAN

LOCATION - LAT 49 59 24 N DRAINAGE AREA, 45.8 km²
LONG 100 36 39 W NATURAL FLOW

KENTON CREEK AT KENTON - STATION NO. 05NG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	4.11 ON APR 16	0 ON MAR 1 *	729	1962
1963	---	4.30 ON JUN 9	08 ON MAR 1	1 200	1963
1964	---	2.57 ON APR 4	08 ON MAR 1	676	1964
1965	---	8.44 ON JUL 20	08 ON MAR 1	2 930	1965
1966	---	1.02 ON MAR 31	08 ON MAR 1	709	1966
1967	---	1.21 B ON APR 9	08 ON MAR 1	973	1967
1968	---	0.0648 ON MAR 28	08 ON MAR 1	367	1968
1969	---	8.50 E ON APR 12 *	08 ON MAR 1	3 280	1969
1970	---	1.74 ON APR 17	08 ON MAR 1	1 590	1970
1971	---	1.68 ON JUN 15	08 ON MAR 1	509	1971
1972	---	1.50 ON APR 9	08 ON MAR 1	1 400	1972
1973	---	0.054 ON MAR 13	08 ON MAR 1	38.1	1973
1974	---	6.34 B ON APR 16	08 ON MAR 1	2 360	1974
1975	---	4.62 ON APR 28	08 ON MAR 1	2 280	1975
1976	---	6.91 ON APR 9	08 ON MAR 1	2 840	1976
1977	---	0.016 ON MAR 28	08 ON MAR 1	18.6	1977
1978	---	0.691 ON MAR 31	08 ON MAR 1	451	1978
1979	---	3.97 ON APR 19	08 ON MAR 1	1 610	1979
1980	---	0.303 ON APR 6	08 ON MAR 1	70.0	1980
1981	---	0.0308 ON MAR 14	0 ON MAR 29	22.4	1981
1982	---	1.13 B ON APR 12	08 ON MAR 1	425	1982
				1 170	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	11.6	6.55	3.08	3.73	---	---	---	1963
1964	---	---	---	---	35.5	13.2	3.14	2.12	11.6	0.63	4.80	3.03	---	1964
1965	---	---	---	---	39.1	19.8	11.9	4.87	0.71	13.5	9.58	7.60	---	1965
1966	3.63	1.94	0.669	0.422	39.4	29.5	12.7	6.66	4.44	4.01	2.60	1.56	9.02	1966
1967	0.673	---	---	---	---	39.3	15.6	5.31	1.18	1.79	1.78	---	---	1967
1968	---	0.435	0.387	0.301	22.7	---	---	---	---	---	7.64	5.94	---	1968
1969	1.53	0.652	0.484	2.37	4.46	13.6	11.8	8.30	42.4	29.5	8.04	5.18	10.7	1969
1970	2.04	0.870	0.680	1.14	32.3	60.7	20.6	13.0	10.5	27.0	40.0	8.88	19.3	1970
1971	3.85	1.17	0.870	24.9	41.1	43.7	45.2	34.3	15.9	15.1	14.5	8.89	20.9	1971
1972	4.26	1.27	0.465	2.15	52.2	27.8	11.8	5.08	13.2	21.1	11.3	5.52	13.1	1972
1973	1.73	1.02	0.760	0.804	30.6	16.3	4.52	0.840	0.741	0.70	6.72	5.39	6.22	1973
1974	1.93	0.859	0.726	3.85	25.7	17.8	11.5	20.3	27.3	14.7	5.52	3.22	11.2	1974
1975	2.33	0.692	0.186	2.73	29.9	21.6	9.32	11.6	21.5	20.0	10.7	3.91	11.6	1975
1976	1.98	0.904	0.893	6.17	61.4	15.9	36.6	21.8	24.9	23.2	10.6	4.16	15.8	1976
1977	2.34	1.56	1.01	21.2	31.1	15.1	6.50	2.13	10.6	19.8	13.1	3.23	10.8	1977
1978	1.38	0.919	0.746	0.865	34.4	25.3	27.3	27.6	31.6	41.9	16.6	5.76	18.0	1978
1979	2.00	0.895	0.539	0.577	18.9	44.4	29.8	11.9	7.72	11.2	7.25	3.95	11.6	1979
1980	1.70	0.973	0.838	9.69	25.5	---	---	---	52.6	31.1	9.30	5.03	---	1980
1981	3.06	2.00	1.63	1.13	58.2	26.3	18.3	9.62	4.75	21.4	11.1	3.50	12.3	1981
1982	1.56	0.758	0.632	0.610	62.6	27.4	8.24	5.21	9.93	14.1	8.03	5.57	12.2	1982
MEAN	2.27	1.06	0.715	4.93	34.3	26.9	16.2	11.0	16.4	17.4	10.5	5.13	13.1	MEAN

LOCATION - LAT 56 20 40 N DRAINAGE AREA, 1 960 km²
LONG 94 41 00 W NATURAL FLOW

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	54.7 ON MAY 8	---	---	1964
1965	---	59.5 ON MAY 10	0 ON APR 23 *	---	1965
1966	---	92.3B ON MAY 27	0 B ON DEC 12	285 000	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	72.5E ON SEP 15	0.345 ON APR 2	338 000	1969
1970	---	79.9 ON MAY 31	0.510 ON APR 3	608 000	1970
1971	---	63.1E ON JUL 10	0.725B ON APR 8	658 000	1971
1972	---	64.0 ON MAY 12	0.085B ON APR 7	414 000	1972
1973	49.8 AT 18:00 CST ON MAY 20	46.7 ON MAY 20	0.603 ON SEP 24	196 000	1973
1974	33.7 AT 16:15 CST ON SEP 3	33.4 ON SEP 2	0.476B ON MAR 31	352 000	1974
1975	39.1 AT 09:50 CST ON MAY 9	38.5 ON MAY 9	0.079B ON APR 9	365 000	1975
1976	63.1 AT 17:30 CST ON JUL 18	62.0 ON JUL 18	0.838B ON APR 10	500 000	1976
1977	60.3 AT 03:06 CST ON APR 25	56.4 ON APR 24	0.926B ON MAR 23	340 000	1977
1978	52.4 AT 01:44 CST ON OCT 14	50.7 ON OCT 12	0.671B ON MAR 20	567 000	1978
1979	59.9 AT 16:05 CST ON JUN 7	59.3 ON JUN 7	0.462B ON APR 5	367 000	1979
1980	---	---	---	---	1980
1981	98.8 AT 07:30 CST ON MAY 19	97.4 ON MAY 19	0.915 ON APR 23	386 000	1981
1982	105 ON MAY 8 *	104 ON MAY 8 *	0.573B ON APR 19	385 000	1982
MEAN				412 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KISIPACHEWUK CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	427	390	344	---	---	---	---	1971
1972	306	319	280	281	424	487	432	383	320	280	218	256	332	1972
1973	226	206	192	188	---	---	---	---	---	---	---	---	---	1973
MEAN	266	263	236	235	424	487	430	387	332	280	218	256	332	MEAN

LOCATION - LAT 54 16 00 N
LONG 98 17 00 W NATURAL FLOW

KISIPACHEWUK CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	530 AT 05:13 CST ON JUN 13 *	515 ON MAY 22 *	178E ON OCT 18 *	10 500 000	1972
1973	---	---	---	---	1973
MEAN				10 500 000	MEAN

E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KRONSGART DRAIN NEAR SEWELL - STATION NO. 05OC024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.029	0.003	0	0.015	0.001	0	0.002	0.001	---	---	0.012	1973
1974	---	---	0	3.26	1.02	0.006	---	---	---	---	---	---	1.06	1974
1975	---	---	0	0.158	0.038	0.056	---	---	---	---	---	---	0.063	1975
1976	---	---	0	0.713	0	0	---	---	---	---	---	---	0.175	1976
1977	---	---	0	0.037	0.002	0.011	---	---	---	---	---	---	0.012	1977
1978	---	---	0	0.390	0.002	0	0	0	0.001	---	---	---	0.096	1978
1979	---	---	0	3.07	0.406	0.005	---	---	---	---	---	---	1.06	1979
1980	---	---	0	0.233	0.005	0.002	---	---	---	---	---	---	0.059	1980
1981	---	---	0.073	0.009	0.033	0.001	---	---	---	---	---	---	0.029	1981
1982	---	---	0.019	0.433	0	0.588	---	---	---	---	---	---	0.256	1982
MEAN	---	---	0.012	0.911	0.151	0.068	0.001	0	0.002	0.001	---	---	0.282	MEAN

LOCATION - LAT 49 16 50 N
LONG 97 31 38 W NATURAL FLOW

KRONSGART DRAIN NEAR SEWELL - STATION NO. 05OC024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	0.227 ON JUN 20	0B ON MAR 1 *	123	1973
1974	---	13.3 ON APR 19	0B ON MAR 1	11 200	1974
1975	---	1.68 ON JUN 30	0B ON MAR 1	655	1975
1976	---	8.38 B ON APR 8	0B ON MAR 1	1 850	1976
1977	---	0.385B ON APR 9	0B ON MAR 1	129	1977
1978	---	1.96 B ON APR 11	0B ON MAR 1	1 020	1978
1979	---	14.1 B ON APR 21 *	0B ON MAR 1	11 100	1979
1980	2.59 B AT 12:51 CST ON APR 6	2.16 B ON APR 6	0B ON MAR 1	621	1980
1981	0.904 AT 10:09 CST ON MAY 25	0.406 ON MAY 25	0B ON MAR 1	311	1981
1982	6.50 AT 09:39 CST ON JUN 7 *	5.95 ON JUN 7	0B ON MAR 1	2 690	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 970	MEAN

LA SALLE RIVER AT LA SALLE - STATION NO. 05OG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	0.574	0.231	1.15	0.155	0.047	0.007	---	---	---	1935
1936	---	---	---	---	2.26	0.463	0.069	0.004	---	---	---	---	---	1936
MEAN	---	---	---	---	1.42	0.347	0.610	0.080	0.047	0.007	---	---	---	MEAN

LOCATION - LAT 49 41 48 N DRAINAGE AREA, 2 390 km^2
LONG 97 15 42 W NATURAL FLOW

LA SALLE RIVER NEAR ELIE - STATION NO. 05OG008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	4.23	3.79	0.061	0.015	0	0	0	---	---	1.01	1979
1980	---	---	0	0.299	0.024	0.005	0.008	0.002	0.001	0.121	---	---	0.057	1980
1981	---	---	0.228	0.040	0.007	0.002	0.003	0.002	0.002	0.002	---	---	0.036	1981
1982	---	---	0.001	0.791	0.064	0.002	0.002	0.001	0	0	---	---	0.106	1982
MEAN	---	---	0.057	1.34	0.971	0.018	0.007	0.001	0.001	0.031	---	---	0.302	MEAN

LOCATION - LAT 49 53 13 N DRAINAGE AREA, 198 km^2
LONG 97 45 54 W NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR ELIE - STATION NO. 05OG008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	17.0 ON MAY 2 *	0B ON MAR 1 *	21 400	1979
1980	---	1.01 ON APR 17	0B ON MAR 1	1 210	1980
1981	0.439 AT 09:04 CST ON MAR 31	0.427B ON MAR 12	0 ON MAY 28	761	1981
1982	2.90 AT 22:17 CST ON APR 14 *	2.67 ON APR 14	0B ON MAR 1	2 240	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 400	MEAN

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	2.84	1.39	0.165	0.343	0.389	0.246	---	---	---	---	1922
1923	---	---	---	---	20.4	1.35	1.26	0.261	---	---	---	---	---	1923
1924	---	---	---	---	3.22	0.088	0.047	0.017	0	---	---	---	---	1924
1925	---	---	3.76	19.7	0.578	2.55	1.19	0.118	0.070	---	---	---	---	1925
1927	---	---	---	---	18.1	3.32	1.85	0.361	0.211	---	---	---	---	1927
1928	---	---	---	3.41	0.244	2.85	3.79	0.285	0.069	---	---	---	---	1928
1929	---	---	---	---	0.099	0.179	0.283	0.222	0.260	---	---	---	---	1929
1930	---	---	---	7.93	1.39	0.070	---	---	---	---	---	---	---	1930
1934	---	---	---	13.0	0.804	---	---	---	---	---	---	---	---	1934
1956	---	---	---	25.4	24.5	0.364	0.434	0.166	1.17	0.720	0.624	0.028	---	1956
1957	0.054	0.034	2.50	6.75	0.427	0.370	0.241	0.103	0.291	0.085	0.019	0	0.903	1957
1958	0	0	0.670	0.828	0.122	0.065	1.50	0.036	0.003	---	---	---	---	1958
1966	---	---	---	---	---	---	---	---	---	0	0	0	---	1966
1967	0	0	0	39.9	3.83	0	0	0	0	0.003	0	0	3.61	1967
1968	0	0	0.084	1.74	0.180	0.058	0.768	10.5	2.91	0.178	0.055	0.001	1.45	1968
1969	0	0	0	28.4	5.65	3.30	10.7	1.87	0.157	0.186	0	0	4.18	1969
1970	0	0	0	35.5	25.9	0.473	0.033	0	0	0	0	0	5.15	1970
1971	0	0	0	17.2	0.958	0.088	0.041	0	0	0	0	0	1.51	1971
1972	0	0	0.044	20.3	0.650	0.016	0.008	0	0	0	0	0	1.72	1972
1973	0	0	3.36	0.638	0.196	1.17	0.126	0.187	0	0	0	0	0.477	1973
1974	0	0	0	49.0	41.4	1.41	0	0	0	0	0	0	7.66	1974
1975	0	0	0	13.5	3.95	0.191	0.183	0	0	0	0	0	1.48	1975
1976	0	0	0.002	27.9	0.215	1.07	0.037	0.027	0.010	0.026	0.248	0.158	2.44	1976
1977	0.025	0.015	0.018	1.03	0.166	0.051	1.79	0.011	3.33	0.321	0.010	0.008	0.563	1977
1978	0.006	0.006	0.049	20.9	7.07	0.346	0.115	0.024	0.224	0.053	0.013	0.008	2.38	1978
1979	0.008	0.007	0.015	37.6	48.6	1.64	0.445	0.106	0.004	0	0.004	0	7.41	1979
1980	0	0	0.002	2.64	0	0	0	0	0	0	0.220	0	0.235	1980
1981	0	0.012	1.16	0.520	0.156	0.024	0.005	0	0	0	0.001	0.001	0.158	1981
1982	0	0	0.350	6.32	0.045	0.001	0.011	0.002	0.004	0.002	0	0	0.554	1982
MEAN	0.005	0.004	0.674	16.0	7.51	0.786	0.969	0.565	0.359	0.083	0.063	0.011	2.46	MEAN

LOCATION - LAT 49 40 45 N   DRAINAGE AREA, 1 900 km²
LONG 97 25 46 W   NATURAL FLOW

REMARKS - MISC. MEASUREMENTS WERE ALSO OBTAINED IN 1915, 1916, 1920, 1932, AND 1933

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1922	---	6.14 ON APR 10	---	---	1922
1923	---	84.4 ON APR 29	---	---	1923
1924	---	---	0 ON JUL 15 *	---	1924
1925	---	---	---	---	1925
1927	---	---	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	26.9 ON APR 12	0 ON MAY 1	---	1930
1934	---	50.4 ON APR 12	0 ON MAY 27	---	1934
1956	---	113 ON MAY 2	0 ON JUN 24	---	1956
1957	---	15.8 B ON APR 1	0 B ON NOV 28	28 500	1957
1958	---	5.61 ON JUL 6	0 B ON JAN 1	---	1958
1966	---	---	0 ON OCT 1	---	1966
1967	---	90.6 ON APR 22	0 B ON JAN 1	113 000	1967
1968	---	60.9 ON AUG 27	0 B ON JAN 1	46 000	1968
1969	---	106 ON APR 13	0 B ON JAN 1	132 000	1969
1970	---	125 B ON APR 28 *	0 B ON JAN 1	163 000	1970
1971	---	58.9 B ON APR 12	0 B ON JAN 1	47 600	1971
1972	---	88.6 ON APR 18	0 B ON JAN 1	54 500	1972
1973	---	10.9 B ON MAR 24	0 B ON JAN 1	15 000	1973
1974	---	123 ON APR 24	0 B ON JAN 1	242 000	1974
1975	---	53.5 ON APR 30	0 B ON JAN 1	46 600	1975
1976	---	89.5 ON APR 10	0 B ON JAN 1	77 100	1976
1977	---	16.1 ON SEP 11	0.002 ON AUG 19	17 800	1977
1978	---	58.6 ON APR 17	0.006B ON JAN 4	75 200	1978
1979	119 B AT 22:05 CST ON APR 25 *	119 B ON APR 26	0 ON AUG 26	233 000	1979
1980	9.63 AT 13:00 CST ON APR 19	9.21 ON APR 19	0 B ON JAN 1	7 430	1980
1981	---	4.62B ON MAR 28	0 B ON JAN 1	4 970	1981
1982	30.9 B AT 09:06 CST ON APR 16	30.2 B ON APR 16	0 B ON JAN 1	17 500	1982
MEAN				77 700	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	0	0	0	---	1958
1959	0	0	0.006	14.6	2.23	0.227	0.003	0.168	0.036	12.8	3.02	0.061	2.77	1959
1960	0.028	0.037	0.049	25.7	1.90	0.332	0.114	0.021	0.017	0	0	0	2.31	1960
1961	0	0	1.14	7.98	1.14	0	0	0	0	0	0	0	0.849	1961
1962	0	0	0	13.0	4.26	4.31	0.531	17.2	2.64	0.040	0.014	0	3.51	1962
1963	0	0	2.06	7.21	1.48	9.02	0.152	0.001	0	0	0	0	1.65	1963
1964	0	0	0	3.00	0.132	0.606	0.029	0.001	0.052	0.001	0	0	0.314	1964
1965	0	0	0	35.6	2.34	0.568	0	0	0.057	0	0	0	3.17	1965
1966	0	0	0.010	30.2	9.64	0	2.80	0.290	1.87	---	---	---	---	1966
MEAN	0.004	0.005	0.408	17.2	2.89	1.88	0.454	2.21	0.584	1.61	0.379	0.008	2.08	MEAN

LOCATION - LAT 49 39 00 N — DRAINAGE AREA, 2 110 km²
LONG 97 23 00 W — NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	0 ON OCT 1 *	---	1958
1959	---	49.6B ON APR 8	0B ON JAN 1	87 300	1959
1960	---	75.9 ON APR 13	0 ON JUL 20	73 200	1960
1961	---	23.9B ON APR 11	0B ON JAN 1	26 800	1961
1962	---	71.1B ON APR 26	0 ON JAN 1	111 000	1962
1963	---	54.7 ON JUN 6	0B ON JAN 1	52 000	1963
1964	---	15.0B ON APR 16	0 ON JAN 1	9 930	1964
1965	---	115 B ON APR 16 *	0B ON JAN 1	100 000	1965
1966	---	88.9B ON APR 14	0B ON JAN 1	---	1966
				65 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO. 06EB005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	27.7	34.8	28.3	35.0	37.1	24.1	30.6	30.4	37.7	36.1	34.0	28.8	32.0	1978
1979	30.6	---	---	---	33.2	36.1	27.2	25.1	25.0	23.7	24.2	19.4	---	1979
1980	17.6	18.7	19.7	24.3	28.1	13.9	11.8	19.5	---	---	28.9	25.4	---	1980
1981	27.3	31.0	27.4	25.5	29.4	19.4	14.8	12.8	12.6	15.8	17.1	18.6	20.9	1981
1982	17.7	14.3	16.9	19.6	35.8	40.3	34.7	33.3	24.6	16.7	21.9	21.4	24.8	1982
MEAN	24.2	24.7	23.1	26.1	32.7	26.8	23.8	24.2	25.0	23.1	25.2	22.7	25.9	MEAN

LOCATION - LAT 56 13 43 N — DRAINAGE AREA, 3 830 km²
LONG 101 00 12 W — REGULATED SINCE 1951

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO. 06EB005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	42.5 AT 08:10 CST ON MAY 16	41.6 ON MAY 15	1.42E ON JUN 1 *	1 010 000	1978
1979	---	---	---	---	1979
1980	---	---	11.0 ON JUN 26	---	1980
1981	37.3 AT 08:00 CST ON MAY 24	37.2 ON MAY 24	10.4 ON AUG 5	660 000	1981
1982	74.9 AT 16:40 CST ON AUG 20 *	71.1 ON AUG 21 *	10.1 ON FEB 22	783 000	1982
				818 000	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

E - ESTIMATED

LIMESTONE RIVER NEAR BIRD - STATION NO. 05UG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	25.9	15.7	19.2	19.3	8.79	5.63	---	1963
1964	3.66	2.56	1.69	1.04	9.08	16.2	11.9	9.24	20.4	13.9	---	---	---	1964
1965	---	---	---	---	---	39.4	23.6	14.5	22.3	23.1	---	---	---	1965
1966	---	---	---	---	---	60.0	20.2	11.1	8.69	7.09	---	---	---	1966
1967	---	---	---	---	---	66.1	31.3	13.8	5.99	8.23	---	---	---	1967
1970	---	---	---	---	---	---	---	---	---	---	---	16.7	---	1970
1971	8.75	3.77	3.49	32.0	79.9	89.2	108	69.3	26.9	21.3	16.5	12.0	39.5	1971
1972	7.60	4.74	2.63	5.03	88.7	38.2	25.6	12.2	40.8	27.0	12.0	6.26	22.6	1972
1973	5.42	6.27	6.23	1.56	62.1	18.4	8.85	1.72	2.09	10.4	5.54	3.65	11.1	1973
1974	2.25	1.34	1.39	10.1	---	27.2	10.8	25.1	30.6	16.9	11.4	6.60	---	1974
1975	---	---	---	---	---	---	---	---	---	31.7	9.54	5.66	---	1975
1976	4.41	3.52	2.72	13.4	106	34.2	30.0	19.1	18.3	40.3	13.4	6.70	24.5	1976
1977	4.95	3.69	2.56	69.8	56.7	26.5	17.8	6.01	19.3	15.0	9.17	4.85	19.7	1977
1978	2.21	1.38	0.950	0.987	78.3	26.4	48.4	61.0	63.7	49.4	15.9	6.61	29.9	1978
1979	2.90	1.44	0.814	1.07	36.0	62.1	56.4	26.2	23.4	30.9	10.0	5.55	21.5	1979
1980	3.32R	2.25R	1.63 R	33.9 R	---	---	---	---	---	---	8.28R	5.69R	---	1980
1981	3.94	3.05	2.86	2.85	83.9	37.9	24.0	22.3	10.9	29.0	9.69	3.55	19.7	1981
1982	2.52	2.09	1.74	1.68	124	67.8	24.8	10.0	15.2	19.6	7.49	5.10	23.7	1982
MEAN	4.33R	3.01R	2.39 R	14.5 R	72.5	43.5	31.2	21.2	21.9	22.7	10.6 R	6.75R	23.6	MEAN

LOCATION - LAT 56 31 10 N DRAINAGE AREA, 3 160 km²
LONG 94 12 20 W NATURAL FLOW

R - REVISED SINCE JAN 1980

LIMESTONE RIVER NEAR BIRD - STATION NO. 05UG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	29.2 ON SEP 12	---	---	1964
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	289 B ON MAY 24	---	---	1967
1970	---	---	---	---	1970
1971	185 AT 15:51 CST ON JUL 9	180 ON JUN 1	1.93 B ON APR 11	1 250 000	1971
1972	---	149 B ON MAY 11	1.92 B ON APR 24	717 000	1972
1973	---	120 B ON MAY 14	0.099B ON APR 17 *	350 000	1973
1974	---	---	1.20 B ON FEB 24	---	1974
1975	---	---	---	---	1975
1976	---	162 ON MAY 11	2.12 B ON APR 8	774 000	1976
1977	---	163 ON APR 23	2.04 B ON MAR 31	622 000	1977
1978	---	161 E ON MAY 15	0.878B ON MAR 21	942 000	1978
1979	124 AT 13:26 CST ON JUL 17	121 ON JUL 17	0.651B ON MAR 29	679 000	1979
1980	---	---	---	---	1980
1981	209B AT 08:15 CST ON MAY 21 *	208 B ON MAY 21	2.77 B ON DEC 31	621 000	1981
1982	---	356 B ON MAY 3 *	1.54 B ON APR 9	748 000	1982
MEAN				745 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO. 06FB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	6.36	3.68	2.46	---	---	---	79.7	51.7	119	44.2	22.6	13.4	---	1972
1973	7.26	4.72	4.05	5.00	101	---	---	---	---	17.3	11.1	5.51	---	1973
1974	3.27	2.08	1.28	2.90	43.7	30.9	20.2	37.2	22.8	14.9	7.66	6.42	16.2	1974
1975	4.52	1.85	0.824	2.97	82.3	66.8	35.9	29.6	28.3	34.4	20.2	12.2	26.8	1975
1976	7.24	4.48	3.35	3.63	54.8	51.3	24.7	12.0	23.1	49.1	17.7	9.41	21.8	1976
1977	5.34	3.92	3.24	27.8	112	44.0	34.4	20.8	46.0	22.6	13.8	7.67	28.6	1977
1978	3.93	2.52	2.03	1.91	48.6	63.8	45.2	107	88.7	59.4	25.4	11.0	38.5	1978
1979	5.29	3.13	1.95	1.45	47.8	89.4	35.5	26.5	38.3	39.8	14.0	7.55	26.0	1979
1980	3.90	2.39	1.66	25.8	70.9	83.5	47.9	93.3	100	37.6	9.71	6.79	40.3	1980
1981	5.23	4.23	3.59	3.08	89.3	66.0	24.2	11.7	10.9	26.2	10.8	4.22	21.7	1981
1982	1.76	0.590	0.434	1.26	90.8	107	47.3	22.4	35.7	25.3	11.4	7.39	29.5	1982
MEAN	4.92	3.05	2.26	7.58	74.1	67.0	39.5	41.2	51.3	33.7	14.9	8.32	27.7	MEAN

LOCATION - LAT 57 39 10 N DRAINAGE AREA, 4 250 km²
LONG 95 39 50 W NATURAL FLOW

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO. 06FB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	203 AT 21:55 CST ON SEP 2	200 ON SEP 3	---	---	1972
1973	217 AT 01:30 CST ON MAY 15	199 ON MAY 15	3.34 B ON APR 7	---	1973
1974	68.8 AT 17:30 CST ON MAY 14	63.7 ON MAY 13	0.765B ON APR 12	511 000	1974
1975	---	119 B ON MAY 8	0.680B ON MAR 28	845 000	1975
1976	---	132 A ON MAY 19	3.23 B ON MAR 16	690 000	1976
1977	---	154 B ON MAY 3	3.11 B ON MAR 25	901 000	1977
1978	187 AT 16:57 CST ON AUG 15	186 ON AUG 15	1.87 B ON APR 6	1 210 000	1978
1979	---	123 B ON MAY 26	1.35 B ON APR 17	820 000	1979
1980	240 AT 21:00 CST ON AUG 24	239 ON AUG 24	1.41 B ON APR 7	1 280 000	1980
1981	246 AT 13:00 CST ON MAY 21 *	242 ON MAY 21 *	2.83 B ON APR 30	686 000	1981
1982	155 AT 15:00 CST ON JUN 1	153 ON JUN 1	0.364B ON APR 8 *	929 000	1982
				875 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO. 06FC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	23.7	16.9	15.5	13.1	8.80	---	1967
1968	5.41	4.31	6.06	6.88	89.3	106	63.4	29.3	26.4	40.3	25.6	16.2	35.0	1968
1969	11.4	9.58	8.12	8.43	10.4	101	69.4	42.8	97.7	77.9	41.4	26.2	42.0	1969
1970	20.4	17.1	12.9	10.7	49.0	109	58.6	80.2	41.6	55.8	85.9	38.6	45.0	1970
1971	28.4	23.2	15.6	22.3	108	108	177	103	64.4	58.3	46.4	28.8	65.6	1971
1972	23.4	19.0	15.0	13.2	89.1	63.0	53.2	35.6	64.0	51.2	31.3	21.9	40.1	1972
1973	16.0	12.7	12.6	12.8	68.3	38.9	25.3	15.6	14.3	17.6	13.0	10.0	21.5	1973
1974	8.20	7.35	7.10	11.2	29.4	33.7	28.1	35.6	27.8	23.9	17.5	14.5	20.5	1974
1975	12.4	10.5	9.06	9.65	---	---	47.4	49.4	55.5	56.2	40.4	27.3	---	1975
1976	19.6	15.3	13.7	17.2	100	68.0	79.3	60.4	45.5	56.3	27.4	18.6	43.7	1976
1977	14.7	12.6	11.5	48.0	89.4	65.6	60.7	38.0	41.5	36.3	29.1	19.5	39.0	1977
1978	13.2	10.9	9.26	8.46	59.2	58.2	58.0	102	97.5	104	56.1	31.6	51.0	1978
1979	18.7	13.9	10.8	9.00	73.3	115	74.8	44.6	44.7	56.7	34.7	21.7	43.3	1979
1980	14.1	11.9	11.0	21.7	40.5	56.5	82.3	132	140	93.6	46.0	26.1	56.5	1980
1981	20.7	16.8	13.9	12.6	72.9	61.3	37.6	30.7	19.7	31.2	22.4	11.7	29.4	1981
1982	9.04	7.40	6.24	5.96	97.3	101	54.9	47.5	59.5	57.6	34.7	21.2	42.1	1982
MEAN	15.7	12.8	10.9	14.5	69.7	77.5	64.7	51.9	53.6	52.0	35.3	21.4	41.1	MEAN

LOCATION - LAT 56 54 00 N LONG 95 48 00 W   DRAINAGE AREA, 5 800 km² NATURAL FLOW

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO. 06FC001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	188 B ON MAY 18	4.05B ON FEB 14 *	1 110 000	1968
1969	---	193 ON JUN 25	7.22B ON APR 12	1 330 000	1969
1970	---	173 ON JUN 2	9.83B ON APR 19	1 420 000	1970
1971	255 AT 20:09 CST ON JUL 10 *	253 ON JUL 11 *	11.3 B ON APR 10	2 070 000	1971
1972	---	122 ON MAY 14	11.9 B ON APR 24	1 270 000	1972
1973	123 AT 12:30 CST ON MAY 14	114 ON MAY 14	8.21B ON DEC 31	679 000	1973
1974	47.6 AT 19:00 CST ON AUG 1	47.0 ON AUG 1	6.80B ON APR 17	645 000	1974
1975	---	---	---	---	1975
1976	143 B AT 21:20 CST ON APR 12	140 ON MAY 12	13.4 B ON MAR 29	1 380 000	1976
1977	---	143 B ON APR 26	11.2 B ON APR 4	1 230 000	1977
1978	157 AT 15:02 CST ON AUG 20	155 ON AUG 20	8.30B ON APR 11	1 610 000	1978
1979	---	170 B ON MAY 25	8.50B ON APR 19	1 370 000	1979
1980	---	244 ON AUG 26	10.5 B ON APR 5	1 780 000	1980
1981	---	131 B ON MAY 22	9.92B ON DEC 31	927 000	1981
1982	145 AT 18:00 CST ON JUN 9	142 ON JUN 10	5.12B ON APR 20	1 330 000	1982
				1 300 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO. 05MF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.450	0.930	1.63	0.830	1.09	1.52	0.843	0.142	---	1915
1916	0.057	0.057	0.113	3.40	4.25	7.78	12.7	3.83	2.26	2.41	1.13	0.566	3.23	1916
1917	0.419	0.338	0.473	3.06	7.59	3.19	3.62	1.20	0.693	0.580	0.525	---	---	1917
1918	---	---	---	0.430	1.28	1.46	0.814	0.608	0.587	---	---	---	---	1918
1919	---	---	---	---	2.88	1.18	2.14	0.559	0.474	0.715	0.375	0.033	---	1919
1920	---	---	---	---	10.7	3.48	0.711	0.209	0.326	0.404	---	---	---	1920
1921	---	---	---	---	4.72	2.93	0.862	0.618	1.00	1.01	0.817	---	---	1921
1922	---	---	---	1.33	4.47	3.22	3.15	2.00	1.62	0.938	---	---	---	1922
MEAN	0.238	0.198	0.293	2.06	4.54	3.02	3.20	1.23	1.01	1.08	0.738	0.247	3.23	MEAN

LOCATION - LAT 50 31 55 N LONG 100 17 40 W   DRAINAGE AREA, 1 170 km² NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO. 05MF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	22.9 ON JUL 3 *	0.057B ON JAN 1 *	102 000	1916
1917	---	10.2 ON MAY 8	---	---	1917
1918	---	2.38 ON APR 26	---	---	1918
1919	---	---	---	---	1919
1920	---	15.6 ON MAY 15	---	---	1920
1921	---	---	---	---	1921
1922	---	5.86 ON MAY 27	---	---	1922
MEAN				102 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER AT MIDDLETON BRIDGE - STATION NO. 05MF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.391	0.742	0.631	0.440	0.462	0.248	---	---	1915
1916	---	---	---	1.99	1.19	4.08	8.91	3.63	1.03	1.10	0.700	---	---	1916
MEAN	---	---	---	1.99	1.19	2.24	4.83	2.13	0.735	0.781	0.474	---	---	MEAN

LOCATION - LAT 50 41 40 N LONG 100 14 45 W
DRAINAGE AREA, 668 km^2
NATURAL FLOW

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO. 05MF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	1.42	1.70	1.70	29.3	14.8	9.21	10.5	6.43	1.54	1.83	1.42	0.566	6.70	1913
1914	0.566	0.566	0.566	26.5	---	---	---	---	---	---	---	---	---	1914
MEAN	0.993	1.13	1.13	27.9	14.8	9.21	10.5	6.43	1.54	1.83	1.42	0.566	6.70	MEAN

LOCATION - LAT 50 11 25 N LONG 99 58 00 W
DRAINAGE AREA, 3 160 km^2
REGULATED

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO. 05MF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	57.8 ON APR 12 *	0.283 ON SEP 12 *	211 000	1913
1914	---	---	---	---	1914
MEAN				211 000	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	24.1	14.7	5.46	1.42	1.13	1.05	0.939	0.802	0.380	---	1914
1915	0.001	0.001	0.057	2.69	1.59	2.21	1.97	0.531	0.770	2.33	1.14	0.227	1.13	1915
1916	0.425	0.340	0.227	9.91	8.59	11.5	14.9	3.99	1.94	2.15	1.70	0.850	4.72	1916
1917	0.412	0.474	0.839	5.71	12.6	4.34	3.50	1.34	0.811	0.595	0.942	0.242	2.67	1917
1918	0.073	0.101	1.60	6.26	2.70	3.14	1.04	0.807	1.29	0.880	0.595	0.298	1.56	1918
1919	0.296	0.280	0.325	8.78	6.42	2.34	3.16	1.57	1.90	2.05	0.782	0.290	2.35	1919
1920	0.038	0.050	0.202	5.76	16.4	6.95	2.11	0.575	1.55	1.55	1.01	0.785	3.09	1920
1921	0.352	0.213	0.379	5.89	12.0	6.95	2.00	1.25	3.29	2.84	1.80	1.06	3.17	1921
1922	0.387	0.124	0.311	6.79	11.7	6.57	5.12	4.49	2.14	1.51	1.93	1.38	3.56	1922
1923	0.879	0.354	0.409	13.1	43.0	20.9	15.0	6.90	4.40	2.84	1.61	1.06	9.26	1923
1924	0.358	0.182	0.449	3.92	22.8	9.89	8.44	3.82	1.70	3.87	2.80	1.30	4.99	1924
1925	0.871	0.759	0.991	23.1	12.8	16.2	15.4	4.25	2.12	3.54	2.54	1.07	6.97	1925
1926	0.718	0.480	1.27	7.77	5.78	4.08	1.93	0.980	5.32	6.41	4.11	1.98	3.40	1926
1927	1.40	0.689	0.684	23.0	49.3	27.6	17.5	10.4	6.57	4.09	---	---	---	1927
1928	---	---	---	11.3	10.1	18.0	13.0	5.97	2.85	1.92	1.05	0.680	---	1928
1929	0.595	0.425	0.850	2.88	5.21	4.55	1.19	0.378	0.327	0.499	---	---	---	1929
1930	---	---	---	---	5.34	3.08	0.967	0.180	0.072	---	---	---	---	1930
1959	---	---	0	2.46	7.04	3.15	1.30	0.408	0.475	2.95	---	---	---	1959
1960	---	---	0.057	12.0	19.1	12.3	2.17	0.520	0.380	0.332	---	---	---	1960
1961	---	---	0.371	2.18	2.63	0.598	0.199	0.066	0.052	0.102	---	---	---	1961
1962	---	---	0	1.80	0.803	1.99	0.489	0.583	0.695	0.320	---	---	---	1962
1963	---	---	1.29	11.5	5.85	6.87	3.67	1.17	1.01	1.06	---	---	---	1963
1964	---	---	0.192	5.99	11.1	1.40	1.14	0.500	0.219	0.369	---	---	---	1964
1965	---	---	0.008	4.01	15.5	9.13	2.71	1.39	8.67	4.53	---	---	---	1965
1966	---	---	0.590	9.18	15.8	6.71	2.20	3.48	1.14	0.666	---	---	---	1966
1967	---	---	0.496	12.1	20.1	6.54	1.64	0.728	0.162	0.349	---	---	---	1967
1968	---	---	1.65	6.41	3.89	2.40	2.16	5.79	3.90	1.35	---	---	---	1968
1969	---	---	0.474	16.5	8.38	4.06	16.2	3.53	2.23	1.72	---	---	---	1969
1970	---	---	0.671	6.07	45.0	16.5	7.10	8.31	1.88	2.40	---	---	---	1970
1971	---	---	0.813	13.2	9.11	20.5	10.2	5.54	2.13	5.19	---	---	---	1971
1972	1.44	1.52	1.38	13.7	22.1	5.20	1.50	1.56	1.08	0.630	0.644	0.256	4.26	1972
1973	0.128	0.101	0.885	2.21	1.80	3.17	1.18	1.14	2.55	4.44	1.69	1.34	1.73	1973
1974	0.505	0.846	1.40	14.4	33.5	15.0	2.29	0.687	0.589	0.616	0.578	0.530	5.94	1974
1975	0.383	0.338	0.395	5.12	17.0	8.72	4.09	4.08	26.3	19.3	7.58	3.70	8.11	1975
1976	2.90	2.63	2.25	32.4	16.5	12.7	7.78	1.49	0.520	0.413	0.402	0.243	6.66	1976
1977	0.343	0.670	1.21	4.48	3.48	1.28	3.71	1.53	2.44	3.69	1.55	1.23	2.14	1977
1978	0.930	0.779	0.829	7.91	9.49	2.90	1.30	0.441	0.807	1.14	1.18	0.658	2.37	1978
1979	0.449	0.317	0.473	13.9	33.5	17.4	3.38	0.796	0.412	0.314	0.459	0.432	6.01	1979
1980	0.304	0.223	0.348	5.09	2.05	0.367	0.632	2.45	3.24	1.90	1.87	1.46	1.66	1980
1981	0.645	0.263	1.08	5.13	4.18	3.75	1.57	0.429	0.221	0.872	2.00	0.648	1.73	1981
1982	0.241	0.484	0.322	11.0	7.64	2.31	1.38	1.04	0.205	1.84	1.34	0.212	2.33	1982
MEAN	0.603	0.506	0.678	9.49	13.6	7.77	4.60	2.25	2.42	2.36	1.68	0.892	3.90	MEAN

LOCATION - LAT 50 21 28 N DRAINAGE AREA, 2 620 km^2
LONG 99 54 00 W NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	7.08 ON APR 12	0 B ON JAN 1 *	35 600	1915
1916	---	25.2 ON JUL 1	0.227B ON MAR 1	149 000	1916
1917	---	21.1 ON MAY 2	0.085B ON DEC 26	84 100	1917
1918	---	8.47 ON APR 4	0.057B ON JAN 6	49 300	1918
1919	---	11.8 ON APR 11	0.113B ON DEC 31	74 300	1919
1920	---	20.4 ON MAY 18	0 B ON JAN 21	97 800	1920
1921	---	16.0 ON MAY 29	0.170B ON JAN 24	100 000	1921
1922	---	14.0 ON MAY 20	0.085B ON FEB 12	112 000	1922
1923	---	83.5 ON MAY 5	0.255B ON FEB 17	292 000	1923
1924	---	36.2 ON MAY 2	0.113B ON MAR 6	158 000	1924
1925	---	27.9 ON APR 12	0.595B ON MAR 4	220 000	1925
1926	---	10.4 E ON APR 19	0.450B ON FEB 10	107 000	1926
1927	---	82.4 ON MAY 6	---	---	1927
1928	---	36.2 ON JUN 24	---	---	1928
1929	---	7.56 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1959	---	9.66 ON MAY 11	0 B ON MAR 1	---	1959
1960	---	26.1 ON APR 28	0.057B ON MAR 1	---	1960
1961	---	3.88 ON APR 26	0.025 ON AUG 19	---	1961
1962	---	5.52B ON APR 21	0 B ON MAR 1	---	1962
1963	---	14.9 B ON APR 3	0 B ON MAR 1	---	1963
1964	---	17.6 ON MAY 9	0.091 ON SEP 14	---	1964
1965	---	30.0 ON MAY 6	0.008B ON MAR 1	---	1965
1966	---	19.2 ON MAY 12	0.331 ON SEP 30	---	1966
1967	---	27.2 B ON APR 16	0.127 ON SEP 9	---	1967
1968	---	8.67 ON APR 25	0.340 ON JUN 29	---	1968
1969	---	36.0 ON APR 15	0.450B ON APR 7	---	1969
1970	91.2 AT 02:15 CST ON MAY 12 *	90.3 ON MAY 12 *	0.371 ON SEP 11	---	1970
1971	33.4 AT 02:52 CST ON JUN 20	32.8 ON JUN 20	0.779B ON MAR 25	---	1971
1972	33.7 AT 05:48 CST ON MAY 3	33.4 ON MAY 3	0.176B ON DEC 31	135 000	1972
1973	---	6.60A ON JUN 26	0.045 ON JUL 23	54 400	1973
1974	43.0 AT 10:47 CST ON MAY 3	43.0 ON MAY 3	0.402 ON SEP 15	187 000	1974
1975	62.3 AT 08:40 CST ON SEP 27	59.7 ON SEP 27	0.323B ON FEB 11	256 000	1975
1976	59.7 AT 17:58 CST ON APR 19	59.2 ON APR 19	0.130B ON DEC 9	210 000	1976
1977	13.8 B AT 17:30 CST ON APR 16	11.8 B ON APR 16	0.215B ON JAN 14	67 600	1977
1978	17.0 AT 06:34 CST ON MAY 4	16.9 ON MAY 3	0.176 ON AUG 31	74 600	1978
1979	50.6 AT 04:20 CST ON MAY 24	49.5 ON MAY 24	0.137 ON OCT 7	189 000	1979
1980	10.0 B AT 09:24 CST ON APR 12	7.41B ON APR 12	0.183 ON JUN 25	52 500	1980
1981	9.92 AT 19:59 CST ON APR 8	8.28 ON APR 9	0.081 ON SEP 20	54 600	1981
1982	22.6 B AT 17:19 CST ON APR 22	21.5 B ON APR 22	0.005B ON MAR 21	73 600	1982
				123 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO. 05MF021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.256	2.05	3.13	0.715	0.167	0	0.017	0.048	---	---	0.797	1961
1962	---	---	0.004	6.30	1.67	2.10	0.679	0.637	0.702	0.519	---	---	1.56	1962
1963	---	---	1.30	14.5	7.11	7.62	3.64	1.20	1.44	2.02	---	---	4.82	1963
1964	---	---	0.113	5.86	11.4	1.77	1.11	0.651	0.475	0.472	---	---	2.74	1964
1965	---	---	0.227	9.75	22.6	14.8	6.64	1.92	8.49	5.26	---	---	8.68	1965
1966	---	---	2.14	13.0	17.5	7.84	2.66	3.94	1.55	0.823	---	---	6.16	1966
1967	---	---	0.263	19.4	22.1	8.24	2.52	0.981	0.218	0.397	---	---	6.73	1967
1968	---	---	3.06	7.46	5.17	3.56	2.01	7.04	5.61	1.73	---	---	4.84	1968
1969	---	---	0.404	32.6	12.3	4.85	20.6	4.90	2.36	2.45	---	---	10.0	1969
1970	---	---	0.906	17.3	56.2	19.8	8.67	4.13	1.83	2.59	---	---	13.9	1970
1971	---	---	0.783	13.2	10.5	26.8	15.0	6.71	2.47	4.81	---	---	9.98	1971
1972	---	---	1.63	21.3	28.7	5.24	1.93	0.716	0.313	1.25	---	---	7.62	1972
1973	---	---	1.27	2.27	2.04	2.57	1.55	1.13	2.21	4.26	---	---	2.16	1973
1974	---	---	0.839	23.6	38.8	20.8	2.88	0.762	0.569	0.484	---	---	11.0	1974
1975	---	---	0.334	8.99	22.4	12.0	5.44	5.39	27.5	26.3	---	---	13.5	1975
1976	---	---	2.16	43.9	21.6	12.3	8.66	1.56	0.389	0.285	---	---	11.3	1976
1977	---	---	1.61	4.20	3.80	1.88	3.84	1.81	2.19	4.53	---	---	2.99	1977
1978	---	---	1.02	10.2	9.93	2.77	1.63	0.598	0.952	1.34	---	---	3.55	1978
MEAN	---	---	1.02	14.2	16.5	8.65	4.98	2.45	3.29	3.31	---	---	6.77	MEAN

LOCATION - LAT 50 06 30 N   LONG 100 07 00 W   DRAINAGE AREA, 3 470 km^2 REGULATED SINCE 1961

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO. 05MF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.61 ON MAY 31	0 ON AUG 3 *	16 900	1961
1962	---	34.3 ON APR 21	0 B ON MAR 1	33 000	1962
1963	---	23.6 ON APR 15	0 B ON MAR 1	102 000	1963
1964	---	19.3 ON MAY 5	0.113B ON MAR 1	58 000	1964
1965	---	46.2 ON JUL 21	0.227B ON MAR 1	184 000	1965
1966	---	21.1 ON MAY 14	0.283B ON MAR 1	130 000	1966
1967	---	46.7 B ON APR 16	0.079E ON OCT 4	143 000	1967
1968	---	16.4 B ON MAR 27	0.388 ON JUL 3	94 000	1968
1969	---	92.0 ON APR 15	0.396B ON MAR 1	212 000	1969
1970	---	95.7 ON MAY 14 *	0.906B ON MAR 1	295 000	1970
1971	---	60.3 ON JUN 14	0.651B ON MAR 1	211 000	1971
1972	---	41.1 E ON APR 20	0.178 ON SEP 12	161 000	1972
1973	---	5.75 ON OCT 12	0.057B ON MAR 1	45 700	1973
1974	---	85.2 ON APR 21	0.368 ON OCT 3	234 000	1974
1975	---	66.8 ON SEP 29	0.334B ON MAR 1	286 000	1975
1976	---	72.8 ON APR 21	0.224E ON OCT 6	239 000	1976
1977	---	10.7 ON APR 18	0.215 ON JUL 7	63 200	1977
1978	---	18.2 B ON APR 18	0.374E ON AUG 27	75 100	1978
MEAN				143 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1944	---	---	---	---	---	---	---	5.73	2.32	2.44	---	---	---	1944
1945	---	---	---	12.1	12.5	7.65	5.99	2.20	1.13	1.03	---	---	---	1945
1946	---	---	---	18.6	10.2	3.30	3.71	1.24	1.02	4.71	---	---	---	1946
1947	---	---	---	14.8	28.0	18.6	35.5	6.23	2.87	2.45	3.07	---	---	1947
1948	---	---	0.796	13.2	35.3	8.16	7.68	5.60	1.73	1.11	1.03	---	---	1948
1949	---	---	---	---	5.24	7.14	4.74	5.50	1.44	0.968	1.63	---	---	1949
1950	---	---	---	10.3	30.3	23.6	20.3	12.4	4.73	4.73	---	---	---	1950
1951	---	---	0.569	14.1	17.2	6.57	2.91	0.626	1.14	2.95	---	---	---	1951
1952	---	---	0.097	9.17	3.81	2.14	1.35	0.722	9.29	2.67	---	---	---	1952
1953	---	---	0.026	12.3	19.6	25.6	17.7	8.57	4.25	3.49	---	---	---	1953
1954	---	---	---	9.15	13.3	20.3	15.5	4.34	5.35	10.8	5.51	---	---	1954
1955	---	---	---	24.3	23.2	19.6	13.0	3.94	1.68	1.85	1.35	0.847	---	1955
1956	0.369	0.260	0.919	15.4	31.5	43.7	43.2	13.4	5.95	4.06	6.10	3.13	14.0	1956
1957	2.32	1.74	7.05	18.0	31.6	11.4	7.86	2.98	1.98	1.54	2.08	1.35	7.53	1957
1958	0.461	0.147	3.45	9.50	3.29	1.41	1.80	0.229	0.017	0.278	0.719	0.172	1.79	1958
1959	0.009	0	0.697	5.34	6.40	2.95	0.796	0.409	0.340	1.40	1.83	0.895	1.76	1959
1960	1.22	0.760	0.094	11.9	19.7	19.7	6.86	0.589	0.609	0.607	0.646	0.575	5.27	1960
1961	0.557	0.583	0.544	0.254	0.139	0.589	0.612	0.550	0.379	0.083	0.032	0.324	0.386	1961
1962	0.519	0.880	1.01	0.191	0.392	1.85	1.34	0.714	0.117	0.968	0.983	0.789	0.812	1962
1963	1.33	1.43	0.887	6.97	9.23	12.0	5.19	1.58	0.864	1.32	0.767	1.73	3.61	1963
1964	1.67	1.62	1.65	2.01	10.0	2.53	1.53	0.590	0.132	0.179	0.450	1.88	2.03	1964
1965	2.01	2.02	1.96	7.13	15.9	12.3	5.93	2.78	7.88	5.87	3.26	4.35	5.97	1965
1966	4.04	3.60	2.66	3.23	17.2	8.68	2.37	3.26	1.31	0.611	0.751	0.667	4.04	1966
1967	1.90	2.22	2.05	16.1	20.3	8.86	2.48	0.782	0.268	0.116	1.07	2.18	4.87	1967
1968	2.17	2.10	1.40	4.14	4.29	3.18	2.27	6.15	5.04	1.79	2.14	2.27	3.08	1968
1969	2.41	2.04	1.53	26.6	11.4	3.63	17.4	4.44	1.70	1.85	2.10	2.63	6.49	1969
1970	2.62	2.49	2.52	8.81	51.5	19.2	8.09	3.63	1.77	2.64	4.34	2.55	9.24	1970
1971	2.55	2.37	2.19	7.57	11.8	20.4	13.3	6.16	2.50	5.44	5.37	4.22	7.00	1971
1972	2.15	1.72	1.63	19.1	25.9	6.45	1.79	0.948	0.658	0.680	0.680	0.659	5.20	1972
1973	0.607	0.713	0.684	0.798	1.93	2.49	1.49	0.953	2.38	5.52	2.51	1.62	1.82	1973
1974	1.10	1.08	1.01	21.5	36.6	19.4	2.77	1.15	1.09	1.07	0.883	0.822	7.39	1974
1975	0.817	0.775	0.751	6.47	21.9	10.5	5.46	4.76	23.8	23.2	8.80	4.01	9.31	1975
1976	3.41	2.81	2.38	47.8	22.1	12.0	10.2	1.93	0.879	0.832	0.722	0.749	8.79	1976
1977	0.725	0.682	0.433	1.42	3.81	1.61	3.45	2.17	2.01	4.96	1.59	1.54	2.05	1977
1978	1.47	1.48	1.48	7.16	11.1	3.46	1.72	1.02	0.836	0.784	0.827	0.842	2.69	1978
1979	0.783	0.778	0.791	21.4	39.4	21.2	4.13	1.04	0.825	0.826	0.816	0.820	7.76	1979
1980	0.808	0.786	0.801	1.45	3.07	0.973	1.12	1.46	4.72	2.46	1.24	1.63	1.71	1980
1981	1.57	1.51	1.23	3.71	3.77	3.80	2.29	1.11	1.09	1.04	1.24	1.75	2.01	1981
1982	1.46	1.52	1.40	8.92	9.71	3.34	1.55	1.46	1.31	0.841	1.56	1.13	2.85	1982
MEAN	1.52	1.41	1.44	11.4	16.4	10.5	7.51	3.16	2.75	2.82	2.06	1.65	4.79	MEAN

LOCATION - LAT 50 01 26 N DRAINAGE AREA, 3 910 km^2
LONG 100 12 56 W REGULATED SINCE 1960

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1944	---	---	---	---	1944
1945	---	---	---	---	1945
1946	---	---	---	---	1946
1947	---	---	---	---	1947
1948	---	64.6 ON MAY 5	---	---	1948
1949	---	---	---	---	1949
1950	---	57.8 ON MAY 24	---	---	1950
1951	---	32.0 B ON APR 4	---	---	1951
1952	---	32.3 ON SEP 12	0 B ON MAR 1 *	---	1952
1953	---	35.4 ON JUN 11	---	---	1953
1954	---	26.2 ON JUN 16	---	---	1954
1955	---	32.0 ON APR 12	---	---	1955
1956	---	65.1 ON JUN 26	0.227B ON FEB 12	444 000	1956
1957	---	59.5 ON MAY 3	0.538B ON DEC 25	237 000	1957
1958	---	17.9 B ON APR 1	0 ON SEP 10	56 500	1958
1959	---	9.06 ON MAY 21	0 B ON JAN 13	55 500	1959
1960	---	29.4 ON APR 26	0.085B ON MAR 5	167 000	1960
1961	---	0.725E ON JUN 30	0 E ON NOV 13	12 200	1961
1962	---	1.98 E ON JUN 8	0.006E ON OCT 4	25 600	1962
1963	---	35.7 ON JUN 11	0.020E ON MAR 30	114 000	1963
1964	---	14.8 ON MAY 11	0.045 ON SEP 18	64 300	1964
1965	---	26.7 ON JUL 21	1.84 ON APR 8	188 000	1965
1966	---	19.5 ON MAY 14	0.048 ON APR 19	127 000	1966
1967	---	41.1 ON APR 19	0.031 ON SEP 6	154 000	1967
1968	---	8.35 ON AUG 16	0 ON APR 6	97 400	1968
1969	---	103 A ON APR 15 *	0.093A ON APR 9	205 000	1969
1970	92.0 AT 02:06 CST ON MAY 16 *	87.2 ON MAY 15	0.054 ON APR 21	291 000	1970
1971	37.4 AT 18:00 CST ON JUN 16	36.8 ON JUN 16	0.816 ON APR 14	221 000	1971
1972	47.3 AT 01:21 CST ON APR 18	45.9 ON APR 18	0.462 ON SEP 5	164 000	1972
1973	---	7.16 ON OCT 24	0.314 ON SEP 1	57 300	1973
1974	70.2 AT 17:53 CST ON APR 21	68.2 ON APR 21	0.810 ON DEC 25	233 000	1974
1975	52.1 AT 06:00 CST ON SEP 30	51.5 ON SEP 30	0.742B ON MAR 13	293 000	1975
1976	73.9 AT 11:35 CST ON APR 21	72.8 ON APR 21	0.665 ON OCT 31	278 000	1976
1977	8.13 AT 12:00 CST ON OCT 24	7.82 ON JUL 23	0.258 ON JUL 10	64 600	1977
1978	17.8 AT 13:20 CST ON MAY 8	17.0 ON MAY 8	0.765 ON NOV 2	84 900	1978
1979	89.9 AT 06:07 CST ON APR 24	86.9 ON APR 24	0.762B ON FEB 2	245 000	1979
1980	10.4 AT 12:44 CST ON SEP 23	8.20 ON SEP 24	0.034 ON JUL 27	54 100	1980
1981	6.23 AT 07:55 CST ON APR 13	6.00 ON APR 13	1.01 ON OCT 6	63 400	1981
1982	24.2 AT 14:13 CST ON APR 24	23.9 ON APR 24	0.822 ON OCT 7	89 800	1982
MEAN				151 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO. 05MH006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0	1.04	0.275	0	0	0	0	0	---	---	0.162	1961
1962	---	---	0	3.87	0.144	0.184	0.006	0.003	0	0	---	---	0.516	1962
1963	---	---	0.100	0.009	0.011	0.138	0.005	0	0	0	---	---	0.033	1963
1964	---	---	0	2.74	0.182	0.025	0.026	0	0.156	0.015	---	---	0.386	1964
1965	---	---	0	5.92	0.214	0.116	0.015	0	0.013	0.004	---	---	0.770	1965
1966	---	---	1.25	0.438	0.219	0.130	0.091	0.004	0	0	---	---	0.267	1966
1967	---	---	0	1.14	0.167	0.011	0	0	0	0	---	---	0.163	1967
1968	---	---	0.464	0.049	0.009	0.001	0	0	0.003	0	---	---	0.066	1968
1969	---	---	0	6.19	0.299	0.245	0.608	0.016	0.002	0	---	---	0.905	1969
1970	---	---	0	4.14	1.17	0.084	0.216	0.002	0	0	---	---	0.693	1970
1971	---	---	0.015	0.741	0.022	0.342	0.207	0.016	0	0	---	---	0.165	1971
1972	---	---	1.60	0.528	0.110	0.119	0.004	0	0	0	---	---	0.297	1972
1973	---	---	0	0	0.002	0.001	0	0	0	0	---	---	0	1973
1974	---	---	0	9.80	2.02	0.140	0.001	0	0	0	---	---	1.47	1974
1975	---	---	0	2.78	0.401	0.427	0.012	0.180	0.179	0.251	---	---	0.521	1975
1976	---	---	0.032	12.2	0.337	0.089	0.006	0	0	0	---	---	1.56	1976
1977	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.156	1.41	0.088	0.003	0.001	0	0	0	---	---	0.204	1978
1979	---	---	0	4.58	0.569	0.018	0.008	0.001	0	0	---	---	0.636	1979
1980	---	---	0	0.252	0	0	0	0	0	0	---	---	0.031	1980
1981	---	---	0.147	0.039	0.017	0	0	0.170	0.021	0.020	---	---	0.052	1981
1982	---	---	0.525	3.33	0.197	0.040	0.004	0.002	0	0	---	---	0.505	1982
MEAN	---	---	0.195	2.78	0.293	0.096	0.055	0.018	0.017	0.013	---	---	0.427	MEAN

LOCATION - LAT 49 43 56 N   DRAINAGE AREA, 453 km²
LONG 99 50 52 W   NATURAL FLOW

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO. 05NH006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	4.25 ON APR 9	0B ON MAR 1 *	3 430	1961
1962	---	38.2 ON APR 18	0E ON MAR 1	10 900	1962
1963	---	1.29 ON JUN 4	0B ON MAR 1	696	1963
1964	---	37.1 ON APR 12	0B ON MAR 1	8 160	1964
1965	---	36.2 B ON APR 13	0B ON MAR 1	16 300	1965
1966	---	10.7 B ON MAR 22	0B ON MAR 1	5 650	1966
1967	---	2.81 ON APR 27	0B ON MAR 1	3 450	1967
1968	---	2.86 B ON MAR 26	0B ON MAR 1	1 400	1968
1969	---	40.2 B ON APR 12	0B ON MAR 1	19 100	1969
1970	---	22.1 ON APR 26	0B ON MAR 1	14 600	1970
1971	---	3.00 B ON APR 7	0B ON MAR 1	3 500	1971
1972	---	8.50 B ON MAR 16	0B ON MAR 1	6 270	1972
1973	---	0.008 ON MAY 23	0B ON MAR 1	9.41	1973
1974	---	60.0 ON APR 20 *	0B ON MAR 1	31 200	1974
1975	---	17.6 ON APR 29	0B ON MAR 1	11 000	1975
1976	---	54.4 B ON APR 9	0 ON AUG 7	32 900	1976
1977	---	0.0079 ON MAR 16	0B ON MAR 1	2.51	1977
1978	---	9.60 B ON APR 1	0B ON MAR 1	4 320	1978
1979	58.4 B AT 07:24 CST ON APR 22 *	45.3 B ON APR 22	0B ON MAR 1	13 500	1979
1980	5.00B AT 17:40 CST ON APR 6	2.75 B ON APR 7	0B ON MAR 1	655	1980
1981	4.43 AT 16:40 CST ON AUG 25	2.11 ON AUG 26	0 ON MAY 28	1 110	1981
1982	22.8 B AT 15:08 CST ON APR 13	22.1 B ON APR 13	0B ON MAR 1	10 700	1982
				9 040	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

LITTLE WOODY RIVER NEAR BARROWS - STATION NO. 05LC005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	---	---	---	---	0.521	0.075	0.053	0.154	---	---	---	1976
1977	---	---	0.076	1.14	0.506	0.190	0.915	1.51	1.15	0.762	---	---	0.782	1977
1978	---	---	0.069	0.754	1.44	0.552	0.391	0.202	0.334	0.728	---	---	0.559	1978
1979	---	---	0.067	0.432	3.20	1.25	0.169	0.048	0.177	0.213	---	---	0.695	1979
1980	---	---	0.065	1.18	0.245	0.207	0.145	0.585	0.619	---	---	---	---	1980
1981	---	---	0.058	1.33	0.714	0.585	0.534	0.160	0.296	1.07	---	---	0.591	1981
1982	---	---	0	0.330	1.07	0.599	2.06	0.270	0.152	0.351	---	---	0.606	1982
MEAN	---	---	0.056	0.861	1.20	0.564	0.676	0.407	0.397	0.546	---	---	0.647	MEAN

LOCATION - LAT 52 50 00 N   DRAINAGE AREA, 69.7 km^2
LONG 101 34 00 W   NATURAL FLOW

LITTLE WOODY RIVER NEAR BARROWS - STATION NO. 05LC005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	---	---	---	1976
1977	10.8 AT 17:49 CST ON AUG 10	7.87 ON AUG 10	0.040 ON JUN 29	16 600	1977
1978	4.73 AT 00:00 CST ON APR 29	4.25 ON APR 28	0.057B ON MAR 1	11 800	1978
1979	11.9 AT 20:43 CST ON MAY 25 *	10.4 ON MAY 25	0.030 ON AUG 22	14 700	1979
1980	4.60 AT 17:59 CST ON SEP 4	4.05 ON APR 22	0.016 ON AUG 2	---	1980
1981	6.03 AT 12:55 CST ON OCT 13	4.64 ON OCT 13	0.032 ON SEP 2	12 500	1981
1982	---	22.7 ON JUL 17 *	0 B ON MAR 1 *	12 800	1982
				13 700	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER ABOVE BADGER CREEK - STATION NO. 05OA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	0.005	0.009	0.056	0.015	0.012	0.022	0.021	---	---	---	1921
1922	---	---	---	0.006	0.116	0.026	0.069	0.009	0.009	0.011	---	---	---	1922
1923	---	---	---	---	0.458	0.464	0.319	0.074	---	---	---	---	---	1923
1924	---	---	---	---	1.20	0.455	0.144	0.090	0.012	0.174	---	---	---	1924
1925	---	---	---	1.15	0.393	1.49	0.286	0.043	0.034	0.052	---	---	---	1925
1926	---	---	---	0.184	0.058	0.241	0.196	0.032	0.030	---	---	---	---	1926
1927	---	---	---	1.03	5.00	2.60	1.37	0.337	0.226	0.259	---	---	---	1927
1928	---	---	2.13	0.556	0.233	1.99	2.14	0.416	0.105	0.064	0.048	---	---	1928
1929	---	---	---	---	0.203	0.145	0.023	0.016	0.027	0.030	---	---	---	1929
1930	---	---	---	---	0.934	---	---	---	---	---	---	---	---	1930
1936	---	---	---	---	0.137	0.039	---	---	---	---	---	---	---	1936
MEAN	---	---	2.13	0.702	0.875	0.751	0.507	0.114	0.058	0.088	0.048	---	---	MEAN

LOCATION - LAT 49 00 25 N   DRAINAGE AREA, 492 km^2
LONG 99 32 40 W   NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1979

LONG RIVER ABOVE BADGER CREEK - STATION NO. 05OA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	---	---	1921
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	---	---	---	1927
1928	---	10.4 ON MAY 24 *	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1936	---	---	---	---	1936
MEAN				---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR HOLMFIELD - STATION NO. 05OA006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.358	0.106	0.076	0.022	0.008	0.333	0.023	1.34	---	---	0.286	1959
1960	---	---	0	6.02	1.94	1.21	0.061	0.004	0	0.002	---	---	1.14	1960
1961	---	---	0.063	0.518	0.252	0.039	0	0	0	0	---	---	0.108	1961
1962	---	---	0	1.27	0.243	1.68	0.181	0.380	0.062	0.046	---	---	0.476	1962
1963	---	---	0.408	1.25	0.538	1.45	0.230	0.066	0.021	0.005	---	---	0.496	1963
1964	---	---	0	2.27	0.897	0.345	0.085	0.018	0.030	0.019	---	---	0.452	1964
1965	---	---	0	3.20	1.49	1.07	0.704	0.613	0.350	0.232	---	---	0.950	1965
1966	---	---	1.82	2.07	1.93	0.560	0.709	0.167	0.014	0.029	---	---	0.913	1966
1967	---	---	0.054	1.34	0.887	0.219	0.048	0	0	0.017	---	---	0.318	1967
1968	---	---	0.140	0.260	0.190	0.040	0.047	0.652	1.28	0.272	---	---	0.358	1968
1969	---	---	0	8.98	2.20	0.522	1.49	0.128	0.020	0.072	---	---	1.67	1969
1970	---	---	0	2.83	3.93	1.12	0.418	0.044	0.069	0.061	---	---	1.06	1970
1971	---	---	0	2.89	1.12	2.52	2.16	0.129	0.074	0.496	---	---	1.17	1971
1972	---	---	3.03	5.54	1.93	2.64	0.363	0.598	0.104	0.140	---	---	1.78	1972
1973	---	---	0.435	0.247	0.396	0.711	0.549	0.167	0.260	0.169	---	---	0.366	1973
1974	---	---	0	11.2	6.57	1.99	0.232	0.067	0.049	0.108	---	---	2.50	1974
1975	---	---	0	4.95	3.96	1.44	0.258	0.089	0.166	0.269	---	---	1.38	1975
1976	---	---	0.287	11.2	1.30	0.272	0.027	0.003	0.003	0.063	---	---	1.62	1976
1977	---	---	0.131	0.134	0.235	0.016	0.080	0	0.004	0.014	---	---	0.077	1977
1978	---	---	0.015	2.50	1.08	0.448	0.025	0	0.004	0.005	---	---	0.504	1978
1979	---	---	0	5.29	3.12	0.421	0.033	0.003	0.002	0.010	---	---	1.10	1979
1980	---	---	0.002	0.709	0.008	0.005	0	0.053	0.048	0.113	---	---	0.115	1980
1981	---	0.235	0.218	0.101	0.193	0.148	0.042	0.124	0.036	0.053	---	---	0.115	1981
1982	---	---	0.495	5.42	0.920	0.517	0.113	0.009	0.005	0.135	---	---	0.940	1982
MEAN	---	0.235	0.311	3.35	1.48	0.889	0.328	0.152	0.109	0.153	---	---	0.829	MEAN

LOCATION - LAT 49 08 51 N LONG 99 24 51 W

DRAINAGE AREA, 578 km^2

REGULATED SINCE 1956

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.06 AND 0 m^3/s OCCURRED IN FEB

LONG RIVER NEAR HOLMFIELD - STATION NO. 05OA006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	4.98 ON OCT 28	0 B ON MAR 1 *	6 060	1959
1960	---	15.8 B ON APR 7	0 B ON MAR 1	24 100	1960
1961	---	0.977B ON APR 18	0 B ON MAR 1	2 280	1961
1962	---	10.3 ON JUN 15	0 B ON MAR 1	10 100	1962
1963	---	4.81 ON JUN 5	0 B ON MAR 1	10 500	1963
1964	---	5.52 B ON APR 7	0 B ON MAR 1	9 500	1964
1965	---	8.86 B ON APR 13	0 B ON MAR 1	20 100	1965
1966	---	5.32 B ON MAR 31	0 B ON MAR 1	19 300	1966
1967	---	2.97 ON APR 29	0 B ON MAR 1	6 730	1967
1968	---	3.11 ON SEP 9	0 B ON MAR 1	7 590	1968
1969	---	33.1 B ON APR 13	0 B ON MAR 1	35 300	1969
1970	---	11.4 ON MAY 1	0 B ON MAR 1	22 300	1970
1971	---	7.76 ON APR 11	0 B ON MAR 1	24 700	1971
1972	---	13.8 B ON MAR 17	0 B ON MAR 1	37 800	1972
1973	---	2.70 ON JUN 22	0 B ON MAR 1	7 740	1973
1974	---	40.5 B ON APR 17 *	0 B ON MAR 1	53 000	1974
1975	---	17.8 ON APR 29	0 B ON MAR 1	29 200	1975
1976	---	24.1 B ON APR 2	0 ON JUL 26	34 300	1976
1977	---	2.41 ON MAY 21	0 ON JUL 9	1 630	1977
1978	---	5.66 ON MAY 26	0 B ON MAR 1	10 700	1978
1979	---	23.5 B ON APR 22	0 B ON MAR 1	23 300	1979
1980	---	3.02 B ON APR 5	0 B ON MAR 1	2 440	1980
1981	---	0.551 ON AUG 6	0.001 ON JUL 26	2 430	1981
1982	15.7B AT 11:06 CST ON APR 3 *	11.4 B ON APR 3	0 B ON MAR 1	19 900	1982
MEAN				17 500	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR KILLARNEY - STATION NO. 05OA013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.051	0.985	0.449	0.075	0.003	0	0	0	---	---	0.193	1967
1968	---	---	0.065	0.153	0.155	0.010	0.001	0.342	0.563	0.139	---	---	0.178	1968
1969	---	---	0	5.36	1.55	0.463	0.906	0.110	0.017	0.050	---	---	1.05	1969
1970	---	---	0.003	1.62	2.40	0.716	0.165	0.016	0	0	---	---	0.610	1970
1971	---	---	0	2.02	0.520	0.962	1.03	0.015	0	0.244	---	---	0.594	1971
1972	---	---	1.18	2.87	1.51	1.19	0.180	0.274	0.044	0.054	---	---	0.906	1972
1973	---	---	0.298	0.208	0.380	0.543	0.251	0.041	0.120	0.146	---	---	0.240	1973
1974	---	---	0	4.85	4.36	1.46	0.158	0.017	0.012	0.016	---	---	1.34	1974
1975	---	---	0	2.43	2.08	1.15	0.205	0.003	0.036	0.165	---	---	0.753	1975
1976	---	---	0.349	7.32	1.07	0.292	0.002	0	0	0	---	---	1.11	1976
MEAN	---	---	0.195	2.78	1.44	0.686	0.288	0.082	0.079	0.081	---	---	0.698	MEAN

LOCATION - LAT 49 10 20 N DRAINAGE AREA, 209 km²
LONG 99 40 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1979

LONG RIVER NEAR KILLARNEY - STATION NO. 05OA013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	2.06 ON APR 30	0B ON MAR 1 *	4 090	1967
1968	---	2.01 ON AUG 26	0B ON MAR 1	3 760	1968
1969	---	16.9 ON APR 12	0B ON MAR 1	22 100	1969
1970	---	6.40 ON APR 30	0B ON MAR 1	12 900	1970
1971	---	5.01B ON APR 7	0B ON MAR 1	12 600	1971
1972	---	6.67 ON JUN 14	0B ON MAR 1	19 200	1972
1973	---	3.03 ON JUN 21	0B ON MAR 1	5 250	1973
1974	---	20.3 ON APR 21	0B ON MAR 1	28 300	1974
1975	---	6.99E ON APR 29	0B ON MAR 1	15 900	1975
1976	---	20.5 ON APR 7 *	0 ON JUL 5	23 600	1976
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 800	MEAN

LONG RIVER NEAR LYONSHALL - STATION NO. 05OA014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	---	---	0.299	0.265	0.097	0.194	0.110	---	---	---	1973
1974	---	---	0	4.85	4.10	1.31	0.100	0.038	0.019	0.014	---	---	1.30	1974
1975	---	---	0	2.47	1.82	0.624	0.057	0.025	0.050	0.090	---	---	0.637	1975
1976	---	---	0.188	3.76	0.862	0.199	0.024	0.003	0.001	0.004	---	---	0.622	1976
1977	---	---	0.008	0.028	0.069	0.002	0.002	0.002	0.006	0.003	---	---	0.025	1977
1978	---	---	0.023	0.500	0.414	0.160	0.041	0	0	0.004	---	---	0.142	1978
1979	---	---	0.008	1.89	0.863	0.189	0.050	0.003	0.052	0.011	---	---	0.380	1979
1980	---	---	0.005	0.131	0.003	0.004	0	0.006	0.070	0.121	---	---	0.042	1980
1981	---	0.217	0.151	0.115	0.137	0.242	0.062	0.011	0.002	0.024	---	---	0.093	1981
1982	---	---	0.028	1.13	0.482	0.232	0.036	0.020	0.002	0.052	---	---	0.246	1982
MEAN	---	0.217	0.046	1.65	0.981	0.326	0.072	0.021	0.040	0.043	---	---	0.387	MEAN

LOCATION - LAT 49 07 55 N DRAINAGE AREA, 150 km²
LONG 99 48 04 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.09 AND 0 m³/s OCCURRED IN FEB

LONG RIVER NEAR LYONSHALL - STATION NO. 05OA014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	---	---	---	---	1973
1974	25.4 AT 19:12 CST ON APR 21 *	21.3 ON APR 21 *	0B ON MAR 1 *	27 700	1974
1975	15.6 AT 08:11 CST ON APR 29	13.4 ON APR 29	0B ON MAR 1	13 500	1975
1976	9.66 AT 20:54 CST ON APR 7	7.42 ON APR 18	0 ON AUG 7	13 200	1976
1977	1.66 AT 14:16 CST ON JUL 11	1.26 ON JUL 11	0B ON MAR 1	533	1977
1978	5.35 AT 10:11 CST ON MAY 25	3.85 ON MAY 26	0 ON AUG 7	3 010	1978
1979	10.8 AT 00:00 CST ON APR 22	8.00 ON APR 22	0 ON JUL 20	8 030	1979
1980	---	0.243B ON APR 1	0B ON MAR 1	894	1980
1981	---	0.360 ON JUN 24	0 ON JUL 21	1 950	1981
1982	6.40 AT 00:00 CST ON APR 16	5.38 ON APR 16	0B ON MAR 1	5 200	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 230	MEAN

LONG RIVER NEAR WAKOPA - STATION NO. 05OA009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	0.096	0.085	0.121	0.034	0	0	0	---	---	0.030	1962
1963	---	---	0.245	0.503	0.154	0.431	0.020	0	0	0	---	---	0.167	1963
1964	---	---	0	0.706	0.454	0.219	0.066	0	0.036	0.025	---	---	0.107	1964
1965	---	---	0	1.62	0.969	0.696	0.645	0.428	0.201	0.097	---	---	0.570	1965
1966	---	---	0.061	1.42	1.49	0.259	0.410	0.054	0.001	0	---	---	0.561	1966
1967	---	---	0.003	0.737	0.350	0.007	0	0	0	0	---	---	0.141	1967
1968	---	---	0.055	0.191	0.110	0.009	0	0.329	0.313	0.102	---	---	0.149	1968
1969	---	---	0	5.02	1.52	0.612	0.752	0.099	0.012	0.032	---	---	1.09	1969
1970	---	---	0.045	2.10	2.40	0.575	0.219	0.050	0	0	---	---	0.677	1970
1971	---	---	0	1.28	0.441	1.07	1.00	0.057	0	0.329	---	---	0.519	1971
1972	---	---	0.693	2.94	1.92	0.072	0.111	0.174	0.059	0.061	---	---	0.049	1972
1973	---	---	0.192	0.124	0.202	---	---	---	---	---	---	---	---	1973
MEAN	---	---	0.175	1.46	0.842	0.442	0.296	0.109	0.060	0.066	---	---	0.450	MEAN

LOCATION - LAT 49 06 10 N DRAINAGE AREA, 142 km²
LONG 99 50 10 W NATURAL FLOW

REMARKS - PUBLISHED AS "WAKOPA CREEK" PRIOR TO 1979

LONG RIVER NEAR WAKOPA - STATION NO. 05OA009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	0.671 ON JUN 17	0B ON MAR 1 *	644	1962
1963	---	1.51 ON JUN 4	0B ON MAR 1	3 540	1963
1964	---	1.81 ON APR 17	0B ON MAR 1	3 950	1964
1965	---	3.06 B ON APR 17	0B ON MAR 1	12 300	1965
1966	---	3.00 B ON APR 1	0B ON MAR 1	11 900	1966
1967	---	0.966 ON APR 24	0B ON MAR 1	2 980	1967
1968	---	2.19 ON AUG 25	0B ON MAR 1	3 160	1968
1969	---	18.3 B ON APR 12 *	0B ON MAR 1	23 100	1969
1970	---	8.38 ON APR 29	0B ON MAR 1	14 300	1970
1971	---	5.92 ON JUN 15	0B ON MAR 1	11 000	1971
1972	---	4.30 B ON APR 16	0B ON MAR 1	18 000	1972
1973	---	---	---	---	1973
MEAN				9 530	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 06EA008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	0.644	0.581	0.486	4.23	6.19	6.12	---	---	1.74	1.88	1.27	0.773	---	1977
1978	0.575	0.440	0.386	0.460	4.26	2.64	1.42	1.78	2.24	3.42	1.73	0.998	1.71	1978
1979	0.874	0.637	0.616	0.661	2.77	2.67	0.950	0.780	1.47	2.08	1.57	0.889	1.33	1979
1980	0.657	0.582	0.441	2.44	2.02	0.396	0.605	1.82	3.73	4.24	1.44	0.834	1.60	1980
1981	0.647	0.528	0.506	0.529	3.71	1.23	0.650	0.444	0.262	0.216	0.186	0.168	0.760	1981
1982	0.171	0.227	0.264	0.404	6.87	6.21	2.20	7.31	3.30	0.986	0.588	0.486	2.43	1982
MEAN	0.595	0.499	0.450	1.46	4.30	3.21	1.17	2.43	2.12	2.14	1.13	0.691	1.57	MEAN

LOCATION - LAT 56 03 16 N DRAINAGE AREA, 1 420 km²
LONG 101 51 30 W NATURAL FLOW

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 06EA008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	11.7 AT 18:30 CST ON MAY 30	11.5 ON MAY 30	0.357 ON APR 3	---	1977
1978	5.15 AT 22:04 CST ON MAY 10	5.10 ON MAY 7	0.377B ON MAR 17	53 800	1978
1979	5.21 AT 01:50 CST ON MAY 27	5.07 ON MAY 26	0.476 ON APR 6	42 100	1979
1980	6.77 AT 22:08 CST ON APR 24	6.69 ON APR 24	0.312 ON JUN 24	50 700	1980
1981	6.50 AT 11:53 CST ON MAY 9	6.48 ON MAY 10	0.165B ON DEC 25	24 000	1981
1982	12.1 AT 12:00 CST ON AUG 20 *	12.1 ON AUG 20 *	0.160B ON JAN 7 *	76 800	1982
MEAN				49 500	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MAIN DRAIN 4A NEAR DOMINION CITY - STATION NO. 05OD028

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	4.24	0.037	0	0	0	0	0	---	---	0.524	1960
1961	---	---	0.142	0.441	0	0	0	0	0	0.001	---	---	0.072	1961
1962	---	---	0	3.29	0.754	0.101	0.134	0.014	0	0	---	---	0.529	1962
1963	---	---	0	0.027	0.007	1.79	0.251	0.027	0	0	---	---	0.259	1963
1964	---	---	0	2.17	1.05	4.32	0	0	0.254	0.015	---	---	0.960	1964
1965	---	---	0	5.34	0.275	0.001	0.032	0.014	1.09	0.881	---	---	0.939	1965
1966	---	---	0.480	6.11	1.70	0.183	0.843	0.011	0.112	0	---	---	1.17	1966
1967	---	---	1.47	9.44	3.46	0.001	0	0	0	0	---	---	1.78	1967
1968	---	---	1.92	0.779	0.012	0.246	2.15	1.36	3.31	0.173	---	---	1.24	1968
1969	---	---	0	3.22	0.279	0.207	0.013	0	0	0.030	---	---	0.461	1969
1970	---	---	0	3.91	1.73	1.02	0.005	0	0.065	0	---	---	0.830	1970
1971	---	---	0	3.07	0.032	0.028	0	0	0	0	---	---	0.383	1971
1972	---	---	0.502	1.31	0	0	0	0	0	0	---	---	0.223	1972
1973	---	---	0.375	0.002	0	0.148	0	0	0.136	0.373	---	---	0.130	1973
1974	---	---	0	6.65	2.76	0.105	0	0	0	0	---	---	1.18	1974
1975	---	---	0	1.23	0.168	0.695	0.130	0.002	0.001	0.001	---	---	0.274	1975
1976	---	---	0	2.08	0	0.052	0.001	0	0	0	---	---	0.261	1976
1977	---	---	0.026	0.274	0	0	0	0	0	0	---	---	0.037	1977
1978	---	---	0.738	1.90	0.003	0	0	0	0.011	0	---	---	0.328	1978
1979	---	---	0	7.96	0.374	0.267	0.006	0	0	0	---	---	1.06	1979
1980	---	---	0.003	1.00	0	0	0.001	0	0.001	0.003	---	---	0.124	1980
1981	---	---	0.325	0.044	0.014	0.003	0	0	0	0.001	---	---	0.049	1981
1982	---	---	0.166	1.29	0.006	0.034	0.293	0.026	0	0.134	---	---	0.242	1982
MEAN	---	---	0.267	2.86	0.550	0.400	0.168	0.063	0.217	0.070	---	---	0.568	MEAN

LOCATION - LAT 49 08 01 N DRAINAGE AREA, 177 km^2
LONG 97 08 42 W NATURAL FLOW

MAIN DRAIN 4A NEAR DOMINION CITY - STATION NO. 05OD028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	15.2 ON APR 6	0B ON MAR 1 *	11 100	1960
1961	---	1.97 B ON MAR 25	0B ON MAR 1	1 520	1961
1962	---	13.1 ON APR 23	0B ON MAR 1	11 200	1962
1963	---	12.9 ON JUN 25	0 ON MAR 1	5 470	1963
1964	---	35.4 ON JUN 12	0B ON MAR 1	20 300	1964
1965	---	24.4 B ON APR 12	0B ON MAR 1	19 900	1965
1966	---	19.8 B ON APR 2	0B ON MAR 1	24 700	1966
1967	---	28.6 ON MAR 31	0B ON MAR 1	37 700	1967
1968	---	19.8 ON SEP 7	0B ON MAR 1	26 300	1968
1969	---	10.7 ON APR 11	0B ON MAR 1	9 760	1969
1970	---	9.06 ON APR 22	0B ON MAR 1	17 600	1970
1971	---	18.2 ON APR 8	0B ON MAR 1	8 120	1971
1972	---	2.69 B ON APR 11	0B ON MAR 1	4 720	1972
1973	---	4.59 ON OCT 10	0B ON MAR 1	2 740	1973
1974	29.4 AT 20:00 CST ON APR 21	28.0 ON APR 17	0B ON MAR 1	24 900	1974
1975	7.56 AT 04:27 CST ON JUN 29	7.42 ON JUN 29	0B ON MAR 1	5 810	1975
1976	18.4 B AT 02:06 CST ON APR 5	16.5 B ON APR 3	0B ON MAR 1	5 530	1976
1977	4.67 AT 22:33 CST ON APR 9	2.38 ON APR 10	0B ON MAR 1	781	1977
1978	10.6 AT 10:10 CST ON APR 9	8.47 ON APR 9	0B ON MAR 1	6 950	1978
1979	49.7 AT 12:30 CST ON APR 19 *	45.6 ON APR 19 *	0B ON MAR 1	22 300	1979
1980	---	4.53 ON APR 7	0B ON MAR 1	2 620	1980
1981	---	0.500B ON MAR 1	0 ON APR 22	1 030	1981
1982	9.85 AT 21:51 CST ON APR 14	6.86 ON APR 15	0B ON MAR 1	5 110	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 000	MEAN

MAIN DRAIN 4B NEAR FREDENSTHAL - STATION NO. 05OD029

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.010	0.652	0	0	0	0	0	0	---	---	0.081	1960
1961	---	---	0.022	0.036	0	0	0	0	0	0	---	---	0.007	1961
1962	---	---	0	0.427	0.079	0	0	0.004	0	0	---	---	0.063	1962
1963	---	---	0.001	0.004	0	0.915R	0.009	0.006	0	0	---	---	0.114R	1963
1964	---	---	0	0.211	0.033	0.494	0.002	0	0.051	0.003	---	---	0.097	1964
1965	---	---	0	0.171	0.029	0	0.267	0.067	0.332	0.246	---	---	0.139	1965
1966	---	---	0.374	1.11	0.281	0.001	0.141	0.015	0.092	0	---	---	0.250	1966
1967	---	---	0.056	0.688	0.213	0	0	0	0	0	---	---	0.118	1967
1968	---	---	0.560	0.049	0	0.007	0.072	0.209	0.152	0	---	---	0.132	1968
1969	---	---	0	0.259	0.004	0.019	0	0	0	0	---	---	0.035	1969
1970	---	---	0	0.700	0.307	0.026	0	0	0.033	0	---	---	0.132	1970
1971	---	---	0	0.563	0	0.007	0	0	0	0	---	---	0.070	1971
1972	---	---	0.098	0.248	0	0	0	0	0	0	---	---	0.043	1972
1973	---	---	0.045	0	0	0.008	0	0	0.001	0.069	---	---	0.016	1973
1974	---	---	0	0.889	0.205	0	0	0.002	0	0	---	---	0.135	1974
1975	---	---	0	0.193	0.017	0.025	0.008	0	0	0	---	---	0.030	1975
1976	---	---	0	0.279	0	0.001	0	0	0	0	---	---	0.034	1976
1977	---	---	0.048	0.027	0.003	0.001	0.001	0	0.001	0	---	---	0.010	1977
1978	---	---	0.194	0.161	0.001	0	0.001	0.001	0.014	0	---	---	0.046	1978
1979	---	---	0	1.68	0.022	0.015	0	0	0	0	---	---	0.210	1979
1980	---	---	0.001	0.148	0	0	0	0	0	0.001	---	---	0.018	1980
1981	---	---	0.032	0.006	0	0.002	0	0	0	0.002	---	---	0.005	1981
1982	---	---	0.049	0.333	0.001	0.020	0.117	0.005	0	0.071	---	---	0.074	1982
MEAN	---	---	0.065	0.384	0.052	0.067R	0.027	0.013	0.029	0.017	---	---	0.081	MEAN

LOCATION - LAT 49 02 42 N DRAINAGE AREA, 23.8 km^2
LONG 97 03 18 W NATURAL FLOW

R - REVISED SINCE JAN 1980

MAIN DRAIN 4B NEAR FREDENSTHAL - STATION NO. 05OD029

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	3.43 ON APR 6	0B ON MAR 1 *	1 720	1960
1961	---	0.215B ON APR 2	0B ON MAR 1	152	1961
1962	---	4.53 ON APR 21	0B ON MAR 1	1 330	1962
1963	---	8.50 R ON JUN 3	0 ON MAR 1	2 420R	1963
1964	---	6.97 ON JUN 12	0B ON MAR 1	2 060	1964
1965	---	4.47 ON JUL 30	0B ON MAR 1	2 930	1965
1966	---	6.91 ON APR 2	0B ON MAR 1	5 280	1966
1967	---	3.17 ON APR 21	0B ON MAR 1	2 500	1967
1968	---	3.57 ON AUG 24	0B ON MAR 1	2 800	1968
1969	---	1.38 ON APR 11	0B ON MAR 1	731	1969
1970	---	4.73 ON APR 18	0B ON MAR 1	2 780	1970
1971	---	5.01 ON APR 7	0B ON MAR 1	1 480	1971
1972	---	0.680B ON APR 10	0B ON MAR 1	904	1972
1973	---	0.597 ON OCT 9	0B ON MAR 1	330	1973
1974	---	8.50 B ON APR 15	0B ON MAR 1	2 850	1974
1975	---	2.48 ON APR 13	0B ON MAR 1	633	1975
1976	---	2.57 B ON APR 3	0B ON MAR 1	726	1976
1977	---	0.784B ON MAR 28	0B ON MAR 1	214	1977
1978	1.76 AT 06:00 CST ON APR 9	1.34 B ON MAR 28	0B ON MAR 1	981	1978
1979	13.1 B AT 18:21 CST ON APR 18 *	12.1 B ON APR 18 *	0B ON MAR 1	4 460	1979
1980	1.87 AT 18:42 CST ON APR 2	1.60 B ON APR 3	0B ON MAR 1	387	1980
1981	0.147B AT 21:10 CST ON MAR 28	0.123B ON MAR 1	0B ON MAR 5	112	1981
1982	2.73 B AT 18:36 CST ON APR 12	2.25 B ON APR 12	0B ON MAR 1	1 570	1982
				1 710R	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. 05RA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	3.68	3.96	4.25	5.67	12.1	8.82	4.87	2.73	2.30	2.43	1.81	1.56	4.52	1913
1914	1.36	1.13	1.13	2.26	5.19	9.76	12.0	3.94	2.71	6.77	3.39	2.55	4.37	1914
1915	1.42	1.42	1.42	13.3	23.0	14.4	7.29	3.85	3.51	6.14	10.2	5.10	7.61	1915
1916	2.83	2.83	2.83	19.0	37.6	33.3	29.2	25.0	22.7	---	---	---	---	1916
1919	---	---	---	---	---	17.9	29.9	19.0	10.9	13.6	14.7	---	---	1919
1921	---	---	---	---	---	31.3	22.5	15.0	4.96	---	---	---	---	1921
1960	---	---	3.63	24.6	41.4	19.7	4.91	1.30	0.956	1.45	1.67	1.30	---	1960
1961	1.31	1.64	2.11	14.5	32.7	14.1	4.37	1.24	0.294	0.164	0.111	0.115	6.07	1961
1962	0.103	0.118	0.687	4.04	23.3	30.4	15.0	35.7	35.7	12.3	8.95	8.89	14.7	1962
1963	6.11	3.48	3.34	20.8	37.7	32.8	14.9	9.71	6.93	3.00	2.33	1.68	11.9	1963
1964	1.11	1.66	1.58	8.18	57.9	24.4	12.0	9.80	8.61	9.64	6.78	5.69	12.3	1964
1965	3.72	2.30	2.48	11.0	40.9	31.2	13.1	5.72	4.44	6.04	6.66	5.88	11.2	1965
1966	5.38	4.69	4.33	12.1	28.2	20.7	14.1	6.69	4.77	3.38	3.14	3.64	9.28	1966
1967	4.58	4.65	4.59	14.2	42.2	24.1	9.57	5.83	3.32	1.88	1.51	1.18	9.83	1967
1968	0.961	0.835	1.03	3.54	13.2	21.3	20.0	12.5	19.2	15.2	12.3	8.60	10.7	1968
1969	6.50	5.10	4.61	14.3	21.9	14.8	13.0	9.88	7.89	9.75	9.08	6.80	10.3	1969
1970	5.28	3.79	3.39	8.06	26.6	35.9	16.2	6.93	3.59	2.47	4.61	9.20	10.5	1970
1971	6.38	4.17	3.19	18.4	27.3	11.4	6.74	2.55	2.16	2.18	2.44	2.17	7.44	1971
1972	2.29	2.71	2.63	13.6	30.6	9.17	3.87	2.18	1.61	1.44	1.75	2.32	6.20	1972
1973	2.58	2.51	2.50	8.33	17.5	10.5	9.03	6.41	7.23	13.8	17.8	11.9	9.20	1973
1974	7.77	6.41	4.41	18.2	74.0	46.1	5.11	1.88	2.43	3.69	4.26	3.87	14.9	1974
1975	3.71	3.97	3.32	6.92	21.0	14.4	8.56	5.88	5.57	4.98	3.78	2.92	7.11	1975
1976	2.79	2.57	2.72	12.5	19.0	9.39	5.52	3.02	2.56	2.68	2.50	2.21	5.63	1976
1977	1.82	1.79	1.64	1.68	1.46	1.87	3.07	3.47	13.7	17.5	10.2	7.23	5.47	1977
1978	5.89	4.64	3.69	10.1	25.6	24.3	26.1	10.8	7.08	5.18	4.20	3.24	10.9	1978
1979	2.82	2.52	2.58	14.7	48.5	42.8	12.8	4.75	3.23	2.82	2.64	2.42	11.9	1979
1980	2.40	2.45	2.53	5.98	8.23	6.27	3.47	2.73	3.23	4.90	6.07	4.53	4.40	1980
1981	3.35	2.75	2.62	3.57	3.07	4.62	4.45	7.48	10.3	7.78	6.68	3.91	5.05	1981
1982	2.65	2.20	2.37	7.19	16.9	17.9	15.0	13.0	5.87	4.71	4.26	3.75	8.02	1982
MEAN	3.42	2.93	2.80	11.0	27.3	20.1	12.0	8.24	7.16	6.14	5.70	4.33	8.78	MEAN

LOCATION - LAT 51 05 54 N DRAINAGE AREA, 1 800 km²
LONG 96 17 00 W NATURAL FLOW

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. 05RA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	13.5 ON MAY 19	1.36 ON SEP 28	142 000	1913
1914	---	17.5 ON JUL 8	1.10 B ON FEB 21	138 000	1914
1915	---	31.4 ON APR 28	1.42 B ON JAN 1	240 000	1915
1916	---	38.8 ON MAY 4	2.83 B ON JAN 1	---	1916
1919	---	32.6 ON JUL 10	---	---	1919
1921	---	---	---	---	1921
1960	---	56.6 ON APR 21	0.510 ON AUG 16	---	1960
1961	---	49.6 ON APR 22	0.065 ON NOV 1 *	191 000	1961
1962	---	68.8 ON AUG 24	0.099 ON JAN 1	463 000	1962
1963	---	46.2 ON MAY 21	1.30 ON DEC 30	376 000	1963
1964	---	72.8 ON MAY 9	0.960 ON JAN 17	390 000	1964
1965	---	50.1 ON MAY 27	1.63 B ON MAR 10	353 000	1965
1966	---	37.4 ON MAY 19	2.80 ON NOV 14	293 000	1966
1967	47.6 AT 17:00 CST ON MAY 12	46.4 ON MAY 9	0.949 ON DEC 28	310 000	1967
1968	23.2 AT 20:00 CST ON JUN 11	23.1 ON JUN 12	0.532 ON FEB 21	340 000	1968
1969	33.1 AT 12:00 CST ON APR 16	32.3 ON APR 16	3.85 ON MAR 29	326 000	1969
1970	43.0 AT 17:00 CST ON JUN 8	42.5 ON JUN 8	2.12 ON OCT 23	332 000	1970
1971	53.5 AT 13:45 CST ON MAY 5	51.8 ON APR 20	1.71 ON AUG 19	235 000	1971
1972	41.1 AT 11:51 CST ON MAY 7	41.1 ON MAY 7	1.29 ON OCT 18	196 000	1972
1973	22.8 AT 06:53 CST ON NOV 1	22.7 ON NOV 1	2.05 ON MAR 9	290 000	1973
1974	104 AT 15:32 CST ON MAY 6 *	103 ON MAY 6 *	1.60 ON JUL 28	470 000	1974
1975	25.6 AT 19:56 CST ON MAY 15	25.3 ON MAY 16	2.38 B ON DEC 12	224 000	1975
1976	24.1 AT 21:29 CST ON MAY 9	23.9 ON MAY 9	1.88 ON DEC 28	178 000	1976
1977	37.4 AT 18:34 CST ON SEP 10	34.0 ON SEP 10	1.38 ON MAY 23	173 000	1977
1978	35.4 AT 18:51 CST ON MAY 17	34.8 ON MAY 17	2.97 B ON DEC 29	345 000	1978
1979	67.3 AT 17:49 CST ON MAY 31	66.3 ON JUN 1	2.22 ON DEC 30	376 000	1979
1980	11.5 AT 13:11 CST ON APR 21	11.4 ON APR 21	2.19 ON JAN 3	139 000	1980
1981	11.7 AT 15:37 CST ON SEP 6	11.3 ON SEP 12	2.22 ON MAY 20	159 000	1981
1982	22.1 AT 17:09 CST ON MAY 22	21.8 ON MAY 21	1.71 B ON FEB 27	253 000	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		277 000	MEAN

MANNES DRAIN NEAR SANFORD - STATION NO. 05OG010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.120R	0.008R	0.110R	0.021R	0.004R	0R	0R	0R	---	---	0.033R	1981
1982	---	---	0.010	0.348	0	0	0	0	0	0	---	---	0.044	1982
MEAN	---	---	0.065R	0.178R	0.055R	0.011R	0.002R	0R	0R	0R	---	---	Q.039	MEAN

LOCATION - LAT 49 37 14 N
LONG 97 22 32 W NATURAL FLOW

R - REVISED SINCE JAN 1980

MANNES DRAIN NEAR SANFORD - STATION NO. 05OG010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	3.02R AT 02:43 CST ON MAY 23 *	1.94R ON MAY 23 *	0RB ON MAR 1 *	705R	1981
1982	2.28 AT 06:35 CST ON APR 13	1.77 ON APR 13	0B ON MAR 1	928	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980		817R	MEAN

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05OE006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.943	0.400	0.214	0.283	0	0	0	0	---	---	0.230	1961
1962	---	---	0	3.79	1.60	0.490	0.116	0.085	0.101	0.031	---	---	0.768	1962
1963	---	---	1.03	0.690	0.211	3.01	0.189	0.704	0	0	---	---	0.723	1963
1964	---	---	0	2.64	---	---	---	---	---	---	---	---	---	1964
1965	---	---	0	5.02	1.04	0.661	0.066	0.001	0.023	0.151	---	---	0.858	1965
1966	---	---	0.097	8.75	4.04	0.668	6.57	0.447	3.22	0.071	---	---	2.97	1966
1967	---	---	0.900	19.4	2.12	0.085	0.030	0.009	0.014	0.017	---	---	2.78	1967
1968	---	---	0.092	0.762	1.58	0.161	0.839	1.08	0.658	0.061	---	---	0.656	1968
1969	---	---	0	7.24	0.923	0.336	0.456	0.410	0.060	0.080	---	---	1.17	1969
1970	---	---	0	10.4	5.14	1.20	0.161	0.042	0.180	0.096	---	---	2.14	1970
1971	---	---	0	6.34	0.168	0.047	0.072	0.103	0.131	0.247	---	---	0.872	1971
1972	---	---	0.904	4.04	0.070	0.085	0.134	0.282	0.157	0.144	---	---	0.718	1972
1973	---	---	3.19	0.134	0.070	0.092	0.029	0.040	0.869	0.353	---	---	0.601	1973
1974	---	---	0	18.5	9.86	0.581	0.013	0.011	0.023	0	---	---	3.59	1974
1975	---	---	0	0.830	0.133	1.95	2.19	0.019	0.020	0.043	---	---	0.645	1975
1976	---	---	0	2.06	0.018	2.03	0.040	0.025	0.054	0.008	---	---	0.519	1976
1977	---	---	0.134	0.357	0.084	0.017	0.122	0.026	0.339	0.120	---	---	0.149	1977
1978	---	---	0.197	8.92	0.497	0.047	0.094	0.001	0.043	0.084	---	---	1.21	1978
1979	---	---	0	9.52	1.26	0.887	0.040	0.061	0.052	0.133	---	---	1.47	1979
1980	---	---	0	2.64	0.041	0.034	0.052	0.024	0.164	0.161	---	---	0.383	1980
1981	---	---	0.417	0.156	0.227	0.216	0.083	0.186	0.133	0.253	---	---	0.209	1981
1982	---	---	0.313	2.92	0.132	1.90	0.393	0.283	0.153	0.261	---	---	0.784	1982
MEAN	---	---	0.374	5.25	1.40	0.704	0.557	0.183	0.304	0.110	---	---	1.12	MEAN

LOCATION - LAT 49 37 50 N DRAINAGE AREA, 490 km²
LONG 96 54 20 W NATURAL FLOW

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05OE006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	11.9 B ON MAR 26	0B ON MAR 1 *	4 880	1961
1962	---	37.4 ON APR 20	0B ON MAR 1	16 300	1962
1963	---	12.3 ON JUN 5	0B ON MAR 1	15 300	1963
1964	---	17.0 ON MAY 4	0B ON MAR 1	---	1964
1965	---	20.8 B ON APR 14	0B ON MAR 1	18 100	1965
1966	---	23.7 ON JUL 4	0B ON MAR 1	62 800	1966
1967	---	59.2 ON APR 21	0B ON MAR 1	58 800	1967
1968	---	15.9 ON MAY 15	0B ON MAR 1	13 900	1968
1969	---	31.4 ON APR 10	0B ON MAR 1	24 800	1969
1970	---	40.8 ON APR 16	0B ON MAR 1	45 300	1970
1971	---	45.3 ON APR 8	0B ON MAR 1	18 400	1971
1972	---	11.0 ON APR 16	0B ON MAR 1	15 200	1972
1973	---	13.6 B ON MAR 13	0B ON MAR 1	12 700	1973
1974	---	74.2 ON MAY 21 *	0B ON MAR 1	76 000	1974
1975	---	44.7 ON JUN 30	0B ON MAR 1	13 600	1975
1976	---	24.2 ON JUN 13	0B ON MAR 1	11 000	1976
1977	---	1.85 ON SEP 27	0B ON MAR 1	3 150	1977
1978	---	42.5 B ON APR 9	0B ON MAR 1	25 700	1978
1979	64.0 B AT 16:01 CST ON APR 19 *	61.2 B ON APR 19	0B ON MAR 1	31 200	1979
1980	29.0 B AT 06:36 CST ON APR 6	20.5 B ON APR 6	0B ON MAR 1	8 110	1980
1981	3.94 AT 08:00 CST ON JUN 29	3.62 ON JUN 29	0 ON JUL 13	4 430	1981
1982	---	13.8 B ON APR 13	0B ON MAR 1	16 600	1982
MEAN				23 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MANNING CANAL NEAR NIVERVILLE - STATION NO. 05OE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	1.01	0.336	0.113	0.256	0	0	0	0	---	---	0.215	1961
1962	---	---	0	3.72	1.71	0.653	0.157	0.024	0.002	0	---	---	0.775	1962
1963	---	---	0.115	0.446	0.037	1.46	0.172	0.640	0	0	---	---	0.356	1963
1964	---	---	0	1.29	0.653	0.522	0.014	0.005	0.046	0.008	---	---	0.314	1964
1965	---	---	0	2.41	0.610	0.243R	0.018R	0.001R	0.035R	0.084R	---	---	0.420R	1965
1966	---	---	0.048	4.23	2.15	0.116	3.51	0.289	1.67	0.017	---	---	1.50	1966
1967	---	---	0.746	11.9	0.848	0.022	0.015	0	0.006	0.011	---	---	1.66	1967
1968	---	---	0.005	0.385	1.20	0.110	0.706	0.385	0.198	0.050	---	---	0.382	1968
1969	---	---	0	3.51	0.048	0.041	0.095	0.201	0.026	0.041	---	---	0.486	1969
1970	---	---	0	7.96	3.55	0.487	0.045	0.066	0.141	0.069	---	---	1.52	1970
1971	---	---	0	3.52	0.070	0.037	0.040	0.024	0.056	0.103	---	---	0.472	1971
1972	---	---	1.35	3.82	0.118	0.020	0.056	0.076	0.077	0.111	---	---	0.696	1972
1973	---	---	2.40	0.092	0.022	0.077	0.008	0.019	0.971	0.432	---	---	0.503	1973
1974	---	---	0	11.7	5.51	0.117	0	0.009	0.031	0.005	---	---	2.15	1974
1975	---	---	0	0.660	0.115	0.798	1.04	0.009	0.013	0.028	---	---	0.332	1975
1976	---	---	0	0.914	0.014	0.985	0.026	0.011	0.022	0.030	---	---	0.246	1976
1977	---	---	0.132	0.208	0.099	0.013	0.059	0.007	0.284	0.069	---	---	0.108	1977
MEAN	---	---	0.342	3.36	0.992	0.350R	0.351R	0.104R	0.210R	0.062R	---	---	0.714	MEAN

LOCATION - LAT 49 36 10 N DRAINAGE AREA, 277 km²
LONG 96 50 50 W NATURAL FLOW

R - REVISED SINCE JAN 1980

MANNING CANAL NEAR NIVERVILLE - STATION NO. 05OE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	8.95B ON MAR 25	0B ON MAR 1 *	4 550	1961
1962	---	25.5 E ON APR 18	0B ON MAR 1	16 400	1962
1963	---	4.73 ON AUG 4	0B ON MAR 1	7 540	1963
1964	---	4.28 ON MAY 6	0B ON MAR 1	6 640	1964
1965	---	12.8 B ON APR 14	0B ON MAR 1	8 880R	1965
1966	---	16.0 ON JUL 4	0B ON MAR 1	31 700	1966
1967	---	47.9 ON APR 21 *	0B ON MAR 1	35 200	1967
1968	---	9.71 ON MAY 15	0B ON MAR 1	8 070	1968
1969	---	21.7 ON APR 10	0B ON MAR 1	10 300	1969
1970	---	26.6 ON APR 16	0B ON MAR 1	32 200	1970
1971	---	27.8 ON APR 8	0B ON MAR 1	9 990	1971
1972	---	9.00B ON APR 12	0B ON MAR 1	14 700	1972
1973	---	11.2 B ON MAR 13	0B ON MAR 1	10 700	1973
1974	---	46.7 ON MAY 21	0B ON MAR 1	45 600	1974
1975	---	13.8 ON JUN 30	0B ON MAR 1	7 020	1975
1976	---	12.3 ON JUN 13	0B ON MAR 1	5 200	1976
1977	---	1.44 ON SEP 27	0B ON MAR 1	2 290	1977
				15 100R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1980

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO. 05OE008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	13.9	19.0	0.076	0.176	0.042	0.010	0.174	---	---	4.17	1969
1970	---	---	0	17.1	17.6	0.921	0.091	0.005	0.178	0.005	---	---	4.46	1970
MEAN	---	---	0	15.5	18.3	0.499	0.134	0.024	0.094	0.090	---	---	4.32	MEAN

LOCATION - LAT 49 31 50 N DRAINAGE AREA, 451 km^2
LONG 97 08 30 W NATURAL FLOW

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO. 05OE008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	52.4 ON MAY 1 *	0B ON MAR 1 *	88 400	1969
1970	---	44.2 ON MAY 1	0B ON MAR 1	94 400	1970
				91 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05OE010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	7.05	0.167	0.020	0.003	0	0	0	---	---	0.888	1971
1972	---	---	0.012	3.83	0.167	0.010	0.001	0.001	0.001	0.001	---	---	0.493	1972
1973	---	---	0.385	0.337	0.027	0.003	0	0	0.044	0	---	---	0.099	1973
1974	---	---	0	25.1	18.9	0.937	0.018	0	0	0	---	---	5.58	1974
1975	---	---	0	0.791	5.62	0.762	2.11	0.007	0	0	---	---	1.17	1975
1976	---	---	0	3.73	0.079	0.090	0.022	0	0	0	---	---	0.481	1976
1977	---	---	0	0.208	0.125	0.125	0.006	0	0.012	0.005	---	---	0.059	1977
1978	---	---	0.096	26.8	2.82	0	0.012	0	0	0	---	---	3.66	1978
1979	---	---	0	27.1	55.5	0.568	0.001	0.001	0	0.001	---	---	10.4	1979
1980	---	---	0	2.62	0.074	0.019	0.001	0.004	0.002	0.010	---	---	0.334	1980
1981	---	---	0.668	0.320	0.405	0.539	0.144	0.141	0.092	0.044	---	---	0.294	1981
1982	---	---	0.122	3.14	0.172	0.459	0.131	0.028	0	0	---	---	0.499	1982
MEAN	---	---	0.107	8.42	7.00	0.294	0.204	0.015	0.013	0.005	---	---	2.00	MEAN

LOCATION - LAT 49 30 00 N DRAINAGE AREA, 445 km^2
LONG 97 09 20 W NATURAL FLOW

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05OE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	42.8 ON APR 11	0 B ON MAR 1 *	18 800	1971
1972	---	10.4 ON APR 18	0 B ON MAR 1	10 400	1972
1973	---	0.756 ON APR 6	0 B ON MAR 1	2 100	1973
1974	---	69.9 ON APR 21	0 B ON MAR 1	118 000	1974
1975	---	16.1 ON MAY 12	0 B ON MAR 1	24 800	1975
1976	---	15.7 ON APR 10	0 B ON MAR 1	10 200	1976
1977	---	0.770B ON APR 14	0 B ON MAR 1	1 260	1977
1978	42.5 B AT 12:14 CST ON APR 23	42.2 B ON APR 23	0 B ON MAR 1	77 500	1978
1979	93.6 AT 21:14 CST ON MAY 6 *	93.0 ON MAY 6 *	0 B ON MAR 1	221 000	1979
1980	7.32 AT 08:38 CST ON APR 10	6.67 B ON APR 10	0 B ON MAR 1	7 070	1980
1981	4.46 AT 08:55 CST ON MAY 31	4.25 ON MAY 31	0.001 ON JUL 29	6 220	1981
1982	14.7 AT 09:45 CST ON APR 16	14.3 ON APR 16	0 B ON MAR 1	10 600	1982
				42 300	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARY JANE CREEK AT LA RIVIERE - STATION NO. 05OB013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.002	3.15	0.094	0.038	0.008	0.006	0.008	0.012	---	---	0.807	1960
1961	---	---	0.190	0.301	0.051	0.026	0.022	0.024	0.035	0.036	---	---	0.142	1961
1962	---	---	0	2.08	0.150	0.046	0.025	0.019	0.016	0.013	---	---	0.560	1962
1963	---	---	0.142	0.072	0.041	0.106	0.049	0.034	0.029	0.025	---	---	0.091	1963
1964	---	---	0.028	0.524	0.071	0.024	0.032	0.025	0.022	0.018	---	---	0.160	1964
1965	---	---	0	1.63	0.124	0.030	0.013	0.010	0.016	0.019	---	---	0.441	1965
1966	---	---	1.04	1.19	0.541	0.036	0.012	0.006	0.006	0.006	---	---	0.702	1966
1967	---	---	0.015	1.70 R	0.246	0.011	0.011	0	0	0	---	---	0.488R	1967
1968	---	---	0.935	0.205	0.284	0.115	0.413	0.944	0.311	0.068	---	---	0.388	1968
1969	---	---	0.018	4.76	0.140	0.165	0.362	0.025	0.014	0.013	---	---	1.25	1969
1970	---	---	0	4.71	1.53	0.117	0.181	0.027	0.017	0.012	---	---	1.57	1970
1971	---	---	0	0.781	0.089	0.040	0.010	0.010	0.010	0.018	---	---	0.224	1971
1972	---	---	1.60	2.13	0.091	0.021	0.014	0.012	0.011	0.011	---	---	0.959	1972
1973	---	---	0.019	0.014	0.019	0.021	0.020	0.014	0.008	0.006	---	---	0.018	1973
1974	---	---	0.002	4.35	1.93	0.079	0.010	0.008	0.003	0.004	---	---	1.58	1974
1975	---	---	0	0.691	0.197	0.077	0.091	0.009	0.004	0.003	---	---	0.239	1975
1976	---	---	0.002	3.16	0.096	0.015	0.003	0.001	0	0	---	---	0.805	1976
1977	---	---	0	0	0.050	0.118	0.020	0	0.068	0.043	---	---	0.042	1977
1978	---	---	0.026	1.77	0.138	0.038	---	---	---	---	---	---	0.487	1978
1979	---	---	0.001	2.08	0.915	0.343	---	---	---	---	---	---	0.829	1979
1980	---	---	0.001	0.376	0.091	0.049	---	---	---	---	---	---	0.128	1980
1981	---	---	0.087	0.025	0.021	0.009	---	---	---	---	---	---	0.036	1981
1982	---	---	0.023	0.516	0.024	0.028	---	---	---	---	---	---	0.146	1982
MEAN	---	---	0.180	1.57 R	0.301	0.067	0.072	0.065	0.032	0.017	---	---	0.526	MEAN

LOCATION - LAT 49 14 21 N   DRAINAGE AREA, 135 km^2
LONG 98 40 28 W   REGULATED

R - REVISED SINCE JAN 1980

MARY JANE CREEK AT LA RIVIERE - STATION NO. 05OB013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	13.8 ON APR 12	0 B ON MAR 1 *	8 520	1960
1961	---	1.20 B ON MAR 29	0.017 ON JUN 25	1 490	1961
1962	---	11.2 ON APR 18	0 B ON MAR 1	5 910	1962
1963	---	0.654B ON MAR 25	0 B ON MAR 1	955	1963
1964	---	3.57 ON APR 11	0.008 ON JUN 9	1 690	1964
1965	---	8.55 B ON APR 12	0 B ON MAR 1	4 640	1965
1966	---	3.77 B ON MAR 30	0 B ON MAR 1	7 400	1966
1967	---	10.7 R ON APR 21	0 B ON MAR 1	5 140R	1967
1968	---	3.71 ON MAR 27	0 B ON MAR 1	4 090	1968
1969	---	32.0 ON APR 10 *	0.014B ON MAR 1	13 200	1969
1970	---	27.8 ON APR 25	0 B ON MAR 1	16 600	1970
1971	---	3.09 ON APR 19	0 B ON MAR 1	2 360	1971
1972	---	3.62 B ON MAR 21	0 B ON MAR 1	10 100	1972
1973	---	0.051 ON MAR 29	0 B ON MAR 1	193	1973
1974	---	21.0 ON APR 17	0.002B ON MAR 1	16 700	1974
1975	---	1.94 B ON APR 13	0 B ON MAR 1	2 520	1975
1976	---	14.8 ON APR 7	0.002B ON MAR 1	8 490	1976
1977	---	0.351 ON JUN 20	0 B ON MAR 1	439	1977
1978	---	5.75 ON APR 8	0.005B ON MAR 1	5 130	1978
1979	---	12.0 E ON APR 22	0 B ON APR 11	8 740	1979
1980	---	1.82 ON APR 7	0 ON MAR 31	1 350	1980
1981	---	0.231B ON MAR 16	0 B ON MAR 1	378	1981
1982	1.86B AT 12:00 CST ON APR 13 *	1.44 B ON APR 13	0 B ON MAR 1	1 540	1982
				5 550R	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED   R - REVISED SINCE JAN 1980

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0	0.383	0.679	0.180	0.069	0.022	0.052R	0.391	---	---	0.222R	1959
1960	---	---	0	1.29	1.04	0.303	0.032	0.056	0.030	0.089	---	---	0.352	1960
1961	---	---	0.017	0.315	0.438	0.034	0.002	0	0	0.008	---	---	0.102	1961
1962	---	---	0	0.355	0.498	0.349	0.079	0.037	0.026	0.082	---	---	0.177	1962
1963	---	---	0.315	2.05	0.622	0.825	0.097	0.041	0.067	0.047	---	---	0.502	1963
1964	---	---	0	0.774	0.342	0.074	0.039	0.014	0.017	0.021	---	---	0.159	1964
1965	---	---	0.014	0.549	1.18	0.403	0.133	0.073	0.709	0.192	---	---	0.405	1965
1966	---	---	0.262	0.822	0.710	0.148	0.071	0.096	0.038	0.063	---	---	0.275	1966
1967	---	---	0.029	0.845	1.45	0.168	0.073	0.026	0.001	0.073	---	---	0.333	1967
1968	---	---	0.056	0.391	0.385	0.222	0.224	0.209	0.140	0.102	---	---	0.216	1968
1969	---	---	0	1.43	0.386	0.835	0.565	0.097	0.126	0.151	---	---	0.445	1969
1970	---	---	0.037	0.848	2.54	0.651	0.267	0.069	0.115	0.179	---	---	0.589	1970
1971	---	---	0	1.10	0.341	1.61	0.352	0.086	0.086	0.508	---	---	0.505	1971
1972	---	---	0.059	1.02	0.849	0.193	0.076	0.054	0.030	0.041	---	---	0.289	1972
1973	---	---	0.092	0.282	0.312	0.443	0.066	0.110	0.235	0.301	---	---	0.229	1973
1974	---	---	0	1.68	2.32	0.502	0.148	0.078	0.078	0.088	---	---	0.610	1974
1975	---	---	0	0.708	1.01	1.04	0.137	0.877	3.11	0.959	---	---	0.972	1975
1976	---	---	0.001	3.41	0.519	0.598	0.120	0.052	0.036	0.045	---	---	0.589	1976
1977	---	---	0.008	0.186	0.212	0.093	0.414	0.063	0.376	0.153	---	---	0.188	1977
1978	---	---	0.008	0.965	0.337	0.128	0.061	0.025	0.080	0.084	---	---	0.209	1978
1979	---	---	0.003	0.813	2.13	0.403	0.092	0.051	0.044	0.053	---	---	0.448	1979
1980	---	---	0.001	0.524	0.098	0.029	0.021	0.068	0.091	0.171	---	---	0.124	1980
1981	---	---	0.146	0.239	0.342	0.519	0.099	0.058	0.044	0.075	---	---	0.189	1981
1982	---	---	0.010	1.47	0.546	0.176	0.063	0.034	0.072	0.134	---	---	0.309	1982
MEAN	---	---	0.044	0.935	0.804	0.414	0.138	0.096	0.233R	0.167	---	---	0.352	MEAN

LOCATION - LAT 50 48 00 N DRAINAGE AREA, 78.2 km^2
LONG 99 28 46 W NATURAL FLOW

R - REVISED SINCE JAN 1980

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	5.38 AT 21:30 CST ON MAY 3	2.61 ON MAY 4	0 B ON MAR 1 *	4 710R	1959
1960	5.18 AT 19:45 CST ON MAY 26	3.74 ON APR 21	0 B ON MAR 1	7 460	1960
1961	---	1.24 ON APR 30	0 B ON MAR 1	2 150	1961
1962	4.02 AT 07:10 CST ON MAY 30	3.45 ON MAY 30	0 B ON MAR 1	3 750	1962
1963	11.3 AT 19:00 CST ON APR 16	6.46 ON JUN 10	0 B ON MAR 1	10 600	1963
1964	5.69B AT 02:10 CST ON APR 25	4.36B ON APR 25	0 B ON MAR 1	3 360	1964
1965	8.01 AT 01:00 CST ON APR 30	5.07 ON APR 30	0.014B ON MAR 1	8 580	1965
1966	---	3.88 ON MAY 5	0.011B ON MAR 1	5 830	1966
1967	---	3.03 ON MAY 7	0 ON AUG 27	7 040	1967
1968	3.31 AT 00:30 CST ON APR 21	2.13 ON APR 21	0 B ON MAR 1	4 570	1968
1969	9.83 AT 08:35 CST ON JUN 27	7.59B ON APR 13	0 B ON MAR 1	9 400	1969
1970	8.61 AT 01:42 CST ON MAY 8	6.43 ON MAY 7	0.034 ON SEP 10	12 500	1970
1971	12.0 AT 13:29 CST ON JUN 6	9.34 ON JUN 6	0 B ON MAR 1	10 700	1971
1972	---	3.85B ON APR 25	0 B ON MAR 1	6 120	1972
1973	4.64 AT 20:40 CST ON JUN 20	2.86 ON JUN 20	0.011 ON JUL 23	4 850	1973
1974	8.52 AT 01:26 CST ON MAY 12	6.71 ON APR 27	0 B ON MAR 1	12 900	1974
1975	29.7 AT 10:07 CST ON SEP 19 *	28.6 ON SEP 19 *	0 B ON MAR 1	20 600	1975
1976	---	8.38B ON APR 6	0 B ON MAR 1	12 500	1976
1977	10.5 AT 00:52 CST ON JUL 12	4.81 ON JUL 12	0 B ON MAR 1	3 980	1977
1978	3.65 AT 00:08 CST ON APR 26	3.00 ON APR 24	0 B ON MAR 1	4 420	1978
1979	8.95 AT 06:01 CST ON MAY 17	7.27 ON MAY 17	0.003B ON MAR 1	9 490	1979
1980	2.01 AT 01:33 CST ON APR 19	1.35 ON APR 19	0 ON JUN 26	2 640	1980
1981	2.05 AT 20:30 CST ON JUN 15	1.36 ON JUN 16	0 B ON MAR 1	4 010	1981
1982	7.78B AT 22:17 CST ON APR 22	4.44 ON APR 23	0 B ON MAR 1	6 550	1982
				7 450R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

MEDORA CREEK NEAR NAPINKA - STATION NO. 05NG020

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.378	0.125	0.079	0.071	0.020	0	0	0	---	---	0.084	1966
1967	---	---	0.002	0.220	0.099	0	0	0	0	0	---	---	0.040	1967
1968	---	---	0.023	0.007	0	0	0	0.136	0.237	0.029	---	---	0.054	1968
1969	---	---	0	2.99	0.415	0.115	0.170	0.024	0	0	---	---	0.457	1969
1970	---	---	0	1.36	0.520	0.010	0.001	0	0	0	---	---	0.238	1970
1971	---	---	0	0.183	0.007	0.365	0.386	0	0	0.003	---	---	0.117	1971
1972	---	---	0.973	0.214	0.038	0.136	0.084	0.020	0.022	0.001	---	---	0.187	1972
1973	---	---	0.015	0.005	0.013	0.004	0.001	0	0	0	---	---	0.005	1973
1974	---	---	0	2.94	0.708	0.096	0.009	0	0	0	---	---	0.462	1974
1975	---	---	0	3.64	1.10	0.144	0.026	0.123	0.097	0.206	---	---	0.659	1975
1976	---	---	0	8.80	0.329	0.176	0.011	0	0	0	---	---	1.14	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.377	0.008	0.003	0	0	0	0	---	---	0.048	1978
1979	---	---	0	1.05	0.139	0.006	0	0	0	0	---	---	0.147	1979
1980	---	---	0	0.009	0.002	0	0	0	0	0	---	---	0.001	1980
1981	---	0.082	0.048	0	0	0	0	0	0	0	---	---	0.006	1981
1982	---	---	0	1.85	0.001	0.006	0	0	0	0	---	---	0.228	1982
MEAN	---	0.082	0.085	1.40	0.203	0.067	0.042	0.018	0.021	0.014	---	---	0.228	MEAN

LOCATION - LAT 49 19 30 N DRAINAGE AREA, 434 km^2
LONG 100 42 10 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.510 AND 0 m^3/s OCCURRED IN FEB

MEDORA CREEK NEAR NAPINKA - STATION NO. 05NG020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	1.70 E ON MAR 16	0E ON MAR 1 *	1 790	1966
1967	---	0.997 ON APR 6	0B ON MAR 1	840	1967
1968	---	0.898 ON AUG 26	0B ON MAR 1	1 140	1968
1969	---	16.3 ON APR 10	0B ON MAR 1	9 690	1969
1970	---	3.99 ON APR 8	0B ON MAR 1	4 960	1970
1971	---	1.43 ON JUN 23	0B ON MAR 1	2 480	1971
1972	---	4.30 ON MAR 21	0B ON MAR 1	3 960	1972
1973	---	0.065B ON MAR 22	0B ON MAR 1	181	1973
1974	---	8.75 B ON APR 10	0B ON MAR 1	9 790	1974
1975	---	12.7 ON APR 16	0B ON MAR 1	13 900	1975
1976	---	40.2 B ON APR 4 *	0B ON MAR 1	24 200	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	2.92 B ON APR 6	0B ON MAR 1	1 010	1978
1979	---	12.3 ON APR 21	0B ON MAR 1	3 120	1979
1980	0.055 AT 06:16 CST ON APR 8	0.053 ON APR 18	0B ON MAR 1	29.4	1980
1981	---	0.232B ON MAR 1	0 ON MAR 25	129	1981
1982	14.2 AT 11:01 CST ON APR 14 *	11.5 ON APR 14	0B ON MAR 1	4 820	1982
				4 820	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NETCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	822	949	934	---	---	1 260	---	---	1 030	---	---	---	---	1971
1972	725	714	754	883	1 170	1 250	1 180	1 110	1 010	942	844	687	940	1972
1973	614	630	620	726	888	1 250	1 400	1 380	1 240	1 110	---	---	---	1973
MEAN	720	764	769	805	1 030	1 250	1 290	1 250	1 090	1 030	844	687	940	MEAN

LOCATION - LAT 54 23 10 N
LONG 98 08 00 W NATURAL FLOW

NETCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	1 300 AT 17:16 CST ON MAY 28	1 300 ON JUN 12	---	---	1971
1972	1 310 AT 12:31 CST ON MAY 30	1 290 ON MAY 21	626B ON DEC 31 *	29 700 000	1972
1973	1 470 AT 17:01 CST ON JUL 11 *	1 450 ON JUL 12 *	---	---	1973
				29 700 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	1.96	3.10	0.895	0.101	1.19	0.552	0.474	---	---	1954
1955	---	---	---	3.80	1.27	0.721	0.048	0	0.020	0.040	---	---	---	1955
1956	---	---	0.044	1.50	1.98	0.416	0.278	0.041	0.130	0.119	---	---	0.563	1956
1957	---	---	0.076	2.02	0.532	0.184	0.049	0.060	0.061	0.071	---	---	0.377	1957
1958	---	---	0.079	0.585	0.167	0.095	0.081	0.038	0.095	0.072	---	---	0.150	1958
1959	---	---	0.206	0.649	0.376	0.561	0.185	0.042	0.068	0.156	---	---	0.279	1959
1960	---	---	0	2.62	1.07	0.438	0.057	0.029	0.028	0.079	---	---	0.533	1960
1961	---	---	0.005	0.073	0.147	0.051	0.014	0	0.100	0.099	---	---	0.061	1961
1962	---	---	0.011	0.267	0.092	0.072	0.042	0.032	0.038	0.043	---	---	0.074	1962
1963	---	---	0.132	0.539	0.345	0.317	0.153	0.021	0.029	0.044	---	---	0.196	1963
1964	---	---	0.025	0.583	0.363	0.038	0.011	0.021	0.024	0.056	---	---	0.139	1964
1965	---	---	0	0.669	0.520	0.238	0.239	0.301	0.367	0.207	---	---	0.316	1965
1966	---	---	0.367	2.09	0.759	0.454	0.205	0.062	0.030	0.043	---	---	0.497	1966
1967	---	---	0	0.591	1.22	0.120	0.022	0.019	0.004	0.033	---	---	0.251	1967
1968	---	---	0.145	0.356	0.118	0.050	0.027	0.037	0.031	0.042	---	---	0.100	1968
1969	---	---	0.009	0.631	0.235	0.186	0.465	0.105	0.029	0.147	---	---	0.225	1969
1970	---	---	0.028	1.32	1.77	0.618	0.468	0.087	0.045	0.124	---	---	0.557	1970
1971	---	---	0.065	1.51	0.250	0.500	0.090	0.025	0.028	0.093	---	---	0.315	1971
1972	---	---	0.041	1.39	0.625	0.058	0.027	0.018	0.011	0.035	---	---	0.273	1972
1973	---	---	0.093	0.153	0.139	0.251	0.052	0.014	0.096	0.118	---	---	0.114	1973
1974	---	---	0	2.45	2.81	0.451	0.017	0.015	0.057	0.079	---	---	0.733	1974
1975	---	---	0	1.58	1.04	1.06	0.034	0.062	0.429	0.258	---	---	0.552	1975
1976	---	---	0.004	2.38	0.306	4.37	0.109	0.016	0.011	0.025	---	---	0.885	1976
1977	---	---	0.017	0.179	0.239	0.074	0.112	0.046	0.302	0.192	---	---	0.145	1977
1978	---	---	0.032	0.677	0.253	0.129	0.016	0.018	0.088	0.067	---	---	0.153	1978
1979	---	---	0.029	2.29	1.84	0.356	0.006	0.001	0.024	0.052	---	---	0.570	1979
1980	---	---	0.024	0.545	0.051	0.023	0.016	0.046	0.048	0.056	---	---	0.100	1980
1981	---	---	0.075	0.174	0.123	0.142	0.134	0.019	0.033	0.069	---	---	0.096	1981
1982	---	---	0.029	0.517	0.135	0.055	0.107	0.035	0.018	0.108	---	---	0.125	1982
MEAN	---	---	0.057	1.15	0.715	0.522	0.137	0.085	0.117	0.106	0.474	---	0.310	MEAN

LOCATION - LAT 51 25 00 N DRAINAGE AREA, 132 km^2
LONG 100 21 10 W NATURAL FLOW

REMARKS - PUBLISHED AS "MINK RIVER" PRIOR TO 1979

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	17.8 ON APR 5	0 ON JUN 29 *	---	1955
1956	---	7.62 B ON APR 30	0 B ON MAR 1	11 900	1956
1957	---	8.61 ON APR 25	0 ON JUL 29	7 980	1957
1958	---	1.10 ON APR 14	0 B ON MAR 1	3 190	1958
1959	2.01 AT 17:00 CST ON JUN 29	1.95 ON JUN 29	0 B ON MAR 1	5 900	1959
1960	13.5 B AT 00:00 CST ON APR 13	11.8 B ON APR 12	0 B ON MAR 1	11 300	1960
1961	---	0.249A ON SEP 5	0 B ON MAR 1	1 290	1961
1962	---	1.33 B ON APR 19	0 B ON MAR 1	1 570	1962
1963	---	1.42 ON APR 10	0 B ON MAR 1	4 160	1963
1964	---	1.45 B ON APR 24	0 A ON JUL 19	2 940	1964
1965	---	1.78 B ON APR 13	0 B ON MAR 1	6 700	1965
1966	---	12.5 B ON APR 2	0.023 ON SEP 8	10 500	1966
1967	---	3.77 B ON APR 28	0 B ON MAR 1	5 310	1967
1968	---	0.850B ON MAR 29	0.011 ON AUG 14	2 120	1968
1969	---	3.31 B ON APR 15	0.008B ON MAR 1	4 780	1969
1970	5.72 B AT 00:00 CST ON APR 26	4.45 B ON APR 26	0.012 ON AUG 26	11 800	1970
1971	8.67 B AT 01:24 CST ON APR 11	6.60 B ON APR 11	0 ON SEP 1	6 680	1971
1972	---	5.13 B ON APR 18	0 ON AUG 28	5 770	1972
1973	2.51 AT 14:12 CST ON AUG 10	0.796 ON JUN 21	0 ON AUG 26	2 410	1973
1974	---	15.7 B ON APR 19	0 B ON MAR 1	15 500	1974
1975	---	5.95 B ON APR 20	0 B ON MAR 1	11 700	1975
1976	44.2 AT 23:19 CST ON JUN 13 *	32.3 ON JUN 14 *	0.003B ON MAR 1	18 700	1976
1977	0.968 AT 18:56 CST ON SEP 27	0.932 ON SEP 27	0.013 ON AUG 20	3 060	1977
1978	---	1.41 ON APR 21	0 ON JUL 10	3 240	1978
1979	17.3 AT 00:00 CST ON APR 24	13.9 B ON APR 23	0 ON JUL 9	12 100	1979
1980	3.30 AT 11:13 CST ON OCT 28	1.57 B ON APR 8	0 ON JUN 17	2 110	1980
1981	0.991 AT (9:25 CST ON JUL 2	0.768 ON JUL 3	0 ON AUG 16	2 030	1981
1982	---	1.73 B ON APR 16	0 B ON MAR 1	2 640	1982
	A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD	6 570	MEAN

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.08	0.021	0	0	0.001	0	0	---	---	0.135	1980
1981	---	---	0.052	0.042	0.024	0.548	0.217	0.004	0.001	0.002	---	---	0.110	1981
1982	---	---	0.074	0.812	0.104	0.010	0.052	0.008	0.001	0.050	---	---	0.137	1982
MEAN	---	---	0.042	0.645	0.050	0.186	0.090	0.004	0.001	0.017	---	---	0.127	MEAN

LOCATION - LAT 51 25 55 N DRAINAGE AREA, 269 km^2
LONG 100 01 00 W NATURAL FLOW

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	4.10A ON APR 10 *	0B ON MAR 1 *	2 860	1980
1981	4.51 AT 07:30 CST ON JUN 24 *	3.94 ON JUN 24	0 ON SEP 9	2 330	1981
1982	---	2.68B ON APR 15	0B ON MAR 1	2 910	1982
	A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD	2 700	MEAN

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05ME008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.020	0.146	0	0	---	---	---	---	---	---	0.041	1978
1979	---	---	0	0.981	1.15	0.234	---	---	---	---	---	---	0.592	1979
1980	---	---	0	0.084	0	0	---	---	---	---	---	---	0.021	1980
1981	---	0.007	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0.017	0.387	0	0	---	---	---	---	---	---	0.100	1982
MEAN	---	0.007	0.006	0.266	0.192	0.039	0	0	0	0	---	---	0.126	MEAN

LOCATION - LAT 50 16 09 N DRAINAGE AREA, 360 km^2
LONG 101 01 14 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.025 AND 0 m^3/s OCCURRED IN FEBRUARY

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05ME008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	0 B ON MAR 1	0B ON MAR 1 *	0	1977
1978	0.702B AT 17:34 CST ON APR 10	0.467B ON APR 10	0B ON MAR 1	431	1978
1979	6.26 AT 07:35 CST ON APR 22 *	5.64 ON APR 22 *	0B ON MAR 1	6 240	1979
1980	0.437B AT 23:45 CST ON APR 9	0.352B ON APR 9	0B ON MAR 1	216	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	---	1.29 ON APR 15	0B ON MAR 1	1 050	1982
				1 320	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOOSE RIVER NEAR MOOSE LAKE - STATION NO. 05KK007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	-10.1	-40.2	-5.84	22.0	32.8	44.9	---	1971
1972	44.5	52.7	54.7	53.6	-8.39	-1.86	-45.2	-44.7	-7.22	23.0	36.8	---	---	1972
1973	50.2	57.3	58.3	59.0	12.4	-41.4	-38.8	4.04	-15.0	-29.6	17.4	37.3	14.0	1973
MEAN	47.4	55.0	56.5	56.3	2.01	-21.6	-31.4	-27.0	-9.35	5.13	29.0	41.1	14.0	MEAN

LOCATION - LAT 53 38 00 N
LONG 100 19 00 W REGULATED SINCE 1964

MOOSE RIVER NEAR MOOSE LAKE - STATION NO. 05KK007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	63.7 ON APR 5 *	-55.5A ON JUL 2 *	443 000	1973
				443 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX) * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MORRIS RIVER AT ROSENORT - STATION NO. 05OF002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	---	3.98	---	---	---	---	---	---	---	---	1922
1923	---	---	---	---	8.15	---	---	---	---	---	---	---	---	1923
1925	---	---	---	---	1.26	---	---	---	---	---	---	---	---	1925
1963	---	---	0.005	3.24	1.98	13.1	1.61	0.588	0	0	---	---	2.53	1963
1964	---	---	0	8.36	1.05	1.44	0.213	0.155	2.09	0	---	---	1.63	1964
1965	---	---	0	33.3	3.63	1.47	0	0	0	0	---	---	4.71	1965
1968	---	---	0.411	3.09	1.94	0.519	2.01	10.7	4.53	0.627	---	---	2.98	1968
MEAN	---	---	0.104	12.0	3.14	4.13	0.958	2.86	1.66	0.157	---	---	2.96	MEAN

LOCATION - LAT 49 27 30 N DRAINAGE AREA, 2 230 km^2
LONG 97 26 15 W NATURAL FLOW

MORRIS RIVER AT ROSENORT - STATION NO. 05OF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1925	---	---	---	---	1925
1963	---	56.9 ON JUN 7	0B ON MAR 1 *	53 500	1963
1964	---	41.9B ON APR 16	0B ON MAR 1	34 600	1964
1965	---	122 ON APR 16 *	0B ON MAR 1	99 800	1965
1968	---	50.1E ON AUG 28	0B ON MAR 1	63 100	1968
				62 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

MORRIS RIVER NEAR ROSENORT - STATION NO. 05OF028

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	32.0	8.12	2.95	12.8	1.63	0.460	0.107	---	---	7.20	1969
1970	---	---	0	40.7	39.5	2.39	---	---	---	---	---	---	---	1970
1971	---	---	0	25.9	2.36	1.64	1.28	0.473	0.312	0.945	---	---	4.05	1971
1972	---	---	3.16	21.6	2.37	0.387	0.043	0.065	0.048	0.239	---	---	3.44	1972
1973	---	---	1.88	1.21	0.634	1.11	0.214	0.159	0.034	0.069	---	---	0.663	1973
1974	---	---	0.851	57.9	39.6	2.64	0.340	0.040	0.050	0.060	---	---	12.5	1974
1975	---	---	0.133	6.15	3.54	2.81	1.81	0.233	0.239	0.213	---	---	1.88	1975
1976	---	---	0.054	23.4	1.23	0.665	0.017	0.001	0.001	0.013	---	---	3.12	1976
1977	---	---	0.002	1.41	1.56	0.142	0.184	0.020	0.493	0.430	---	---	0.529	1977
1978	---	---	0.048	23.5	3.27	1.18	2.52	1.07	0.416	0.169	---	---	3.97	1978
1979	---	---	0	---	---	3.19	0.559	0.115	0.353	0.091	---	---	---	1979
1980	---	---	0.003	6.41	0.367	0.017	0.001	0	0.022	0.042	---	---	0.842	1980
1981	---	---	1.46	0.646	0.260	0.336	0.504	0.324	0.810	0.164	---	---	0.563	1981
1982	---	---	0.233	4.80	0.609	0.304	0.054	0.008	0	0.025	---	---	0.743	1982
MEAN	---	---	0.502	18.9	7.96	1.41	1.56	0.318	0.249	0.197	---	---	3.29	MEAN

LOCATION - LAT 49 29 22 N DRAINAGE AREA, 2 200 km²
LONG 97 28 51 W NATURAL FLOW

MORRIS RIVER NEAR ROSENORT - STATION NO. 05OF028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	100 ON APR 15	0 B ON MAR 1 *	152 000	1969
1970	---	134 ON MAY 1	0 B ON MAR 1	---	1970
1971	---	92.6 ON APR 12	0 B ON MAR 1	85 700	1971
1972	73.3 AT 06:10 CST ON APR 17	71.9 ON APR 17	0 B ON MAR 1	72 800	1972
1973	---	8.24 ON JUN 21	0 B ON MAR 1	14 000	1973
1974	170 AT 22:07 CST ON APR 23 *	167 ON APR 24 *	0.001 ON AUG 20	264 000	1974
1975	26.6 AT 22:01 CST ON APR 29	22.6 ON APR 30	0.001 ON AUG 2	39 700	1975
1976	82.1 AT 08:24 CST ON APR 10	81.0 ON APR 10	0 ON JUL 10	66 000	1976
1977	---	7.79B ON APR 10	0 B ON MAR 1	11 200	1977
1978	51.5B AT 01:06 CST ON APR 14	49.8 B ON APR 13	0 B ON MAR 1	84 100	1978
1979	---	---	0 B ON MAR 1	---	1979
1980	16.3B AT 19:57 CST ON APR 10	15.5 B ON APR 10	0 B ON MAR 1	17 800	1980
1981	---	3.70B ON MAR 28	0 A ON SEP 2	11 900	1981
1982	16.4 AT 21:20 CST ON APR 15	15.8 ON APR 15	0 B ON MAR 1	15 700	1982
				69 600	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	64.3	61.5	59.2	50.4	40.9	31.4	26.0	---	---	1948
1949	---	---	---	16.5	15.8	12.2	6.44	2.74	1.33	1.18	1.11	---	7.15	1949
1950	---	---	---	12.5	11.8	28.7	30.3	25.0	18.9	19.8	17.9	---	20.6	1950
1951	---	---	---	17.7	27.1	20.5	8.79	4.64	4.14	4.69	4.57	---	11.5	1951
1952	---	---	---	26.5	25.3	11.8	5.20	2.57	2.06	1.70	1.30	---	9.54	1952
1953	---	---	6.35	18.9	28.2	69.6	68.2	54.1	41.8	34.5	31.1	---	43.3	1953
1954	---	---	15.4	21.1	29.5	54.8	53.4	35.5	33.5	34.6	29.2	---	36.5	1954
1955	---	---	24.2	38.0	49.6	52.2	48.5	35.3	27.2	21.0	---	---	---	1955
1956	---	---	12.4	14.2	39.5	39.0	48.8	38.0	30.4	24.1	---	---	---	1956
MEAN	---	---	14.6	20.7	32.3	38.9	36.5	27.6	22.2	19.2	15.9	---	21.4	MEAN

LOCATION - LAT 51 30 13 N DRAINAGE AREA, 9 040 km²
LONG 99 59 45 W REGULATED

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1948	---	89.8B ON APR 26	---	---	1948
1949	---	22.4 ON APR 4	0.283 ON OCT 30 *	151 000	1949
1950	---	50.4 ON OCT 23	4.50 ON MAY 8	435 000	1950
1951	---	36.2 ON MAY 1	2.55 ON SEP 13	243 000	1951
1952	---	31.1B ON APR 8	0.850 ON NOV 5	201 000	1952
1953	---	105 E ON JUN 5 *	12.5 ON APR 2	913 000	1953
1954	---	67.1 ON JUN 16	13.9 ON APR 10	769 000	1954
1955	---	61.7 ON JUN 24	---	---	1955
1956	---	51.5 ON JUL 15	---	---	1956
				452 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

MOSSY RIVER AT LACY'S FARM BELOW FISHING RIVER - STATION NO. 05LJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	24.4	23.2	23.1	30.8	45.0	40.5	31.3	---	1912
1913	---	---	---	---	---	---	---	34.8	26.1	20.1	18.4	18.8	---	1913
1914	16.8	16.1	14.5	13.9	19.7	20.2	14.8	---	---	---	---	---	---	1914
MEAN	16.8	16.1	14.5	13.9	19.7	22.3	19.0	29.0	28.5	32.6	29.5	25.1	---	MEAN

LOCATION - LAT 51 27 40 N DRAINAGE AREA, 8 990 km²
LONG 99 59 20 W NATURAL FLOW

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO. 05LJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	---	9.55	7.78	6.78	6.23	4.81	---	1914
1915	4.25	4.53	8.50	7.35	5.07	5.00	5.83	3.56	2.80	3.08	2.26	1.84	4.51	1915
1916	0.490	0.416	0.397	2.65	6.59	27.1	19.6	12.1	9.42	9.57	6.47	3.68	8.22	1916
1917	6.46	8.16	8.43	12.5	17.4	15.0	20.0	11.6	9.36	7.22	7.70	4.99	10.8	1917
1918	3.77	3.98	8.88	10.2	9.57	10.6	7.72	6.77	5.34	5.05	4.27	2.35	6.55	1918
1919	1.77	1.49	2.96	8.65	7.49	5.87	5.53	4.03	3.25	3.21	3.62	1.88	4.15	1919
1920	0.908	0.941	1.01	13.8	27.2	19.5	14.2	8.56	6.36	5.58	5.72	5.59	9.13	1920
1921	5.55	6.71	7.02	12.3	16.6	33.1	18.8	18.9	22.7	19.3	22.6	18.2	16.8	1921
1922	14.2	12.2	10.3	39.0	50.5	36.3	30.5	28.0	22.5	17.6	17.9	19.6	24.9	1922
1923	18.2	18.0	19.7	---	---	---	---	---	---	---	---	---	---	1923
MEAN	6.18	6.27	7.47	13.3	17.6	19.1	15.3	11.5	9.95	8.60	8.53	6.99	10.6	MEAN

LOCATION - LAT 51 31 40 N DRAINAGE AREA, 9 510 km²
LONG 99 59 30 W NATURAL FLOW

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO. 05LJ002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	21.4 ON MAR 27	0.878 ON OCT 26	142 000	1915
1916	---	55.2 ON JUN 27	0.368B ON FEB 24 *	260 000	1916
1917	---	34.3 ON JUN 30	2.29 ON OCT 11	339 000	1917
1918	---	25.8 ON MAR 28	1.78 B ON DEC 31	207 000	1918
1919	---	14.7B ON APR 5	1.08 B ON DEC 30	131 000	1919
1920	---	52.4B ON APR 25	0.821B ON JAN 20	289 000	1920
1921	---	85.0 ON JUN 20 *	2.01 B ON FEB 16	531 000	1921
1922	---	64.6 ON MAY 15	9.97 B ON MAR 23	786 000	1922
1923	---	21.0B ON MAR 31	14.2 B ON JAN 18	---	1923
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		336 000	MEAN

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	---	---	---	---	23.0	19.3	19.8	---	1956
1957	18.0	15.4	13.6	19.0	31.4	28.8	24.1	10.5	4.06	3.20	2.18	2.39	14.6	1957
1958	2.21	1.94	2.28	4.59	2.69	1.91	1.78	1.18	0.988	0.634	0.624	0.471	1.77	1958
1959	0.344	0.312	0.667	1.63	1.91	1.29	1.76	2.26	1.94	1.63	1.90	1.80	1.46	1959
1960	1.14	1.36	1.68	15.8	28.4	29.3	20.3	14.0	10.1	6.83	5.89	6.08	11.8	1960
1961	5.43	4.72	4.91	6.57	2.02	1.25	0.688	0.123	0.020	---	---	---	---	1961
1962	---	---	---	---	---	---	---	---	---	0.072	0.038	0.033	---	1962
1963	0.018	0	0.085	0.685	0.939	1.31	0.693	0.630	0.668	0.597	0.482	0.514	0.551	1963
1964	0.651	0.633	0.581	0.645	0.250	0.009	0.065	0.037	0.121	---	---	---	---	1964
1965	---	---	---	---	---	---	---	---	---	0.076	0.128	0.156	---	1965
1966	0.158	0.160	1.54	23.9	35.5	33.4	29.7	24.9	19.8	14.8	4.02	0.875	15.8	1966
1967	0.753	0.658	5.70	18.6	34.8	32.4	26.0	16.3	2.65	1.45	0.609	0.593	11.8	1967
1968	0.542	0.443	0.646	1.23	1.54	1.71	1.16	0.959	1.18	0.700	0.766	0.908	0.983	1968
1969	1.26	1.11	1.26	6.51	12.9	13.2	21.5	42.3	17.9	14.6	12.5	2.40	10.7	1969
1970	0.977	0.852	1.15	12.2	38.5	42.9	36.4	29.1	22.7	18.4	18.8	18.6	20.2	1970
1971	18.3	16.4	13.7	18.8	22.1	24.5	21.8	12.2	1.80	0.033	2.08	5.09	13.1	1971
1972	5.71	4.42	4.43	16.5	36.1	31.3	21.9	10.8	1.84	0.182	0.297	0.977	11.2	1972
1973	0.978	1.70	1.33	1.08	0.881	0.227	0.247	0.242	0.258	0.260	0.906	1.47	0.793	1973
1974	2.05	2.17	2.39	26.9	62.9	68.6	54.2	41.1	33.1	28.4	23.5	19.9	30.6	1974
1975	18.3	16.1	14.1	16.4	30.3	32.5	24.4	15.4	22.6	42.0	38.3	33.5	25.4	1975
1976	27.7	23.9	20.9	36.4	47.2	47.4	50.7	36.7	25.5	20.1	16.3	6.15	29.9	1976
1977	5.13	4.97	2.09	1.66	10.7	1.11	7.56	0.607	3.27	16.8	15.2	14.8	7.03	1977
1978	13.6	12.2	10.5	13.7	17.9	15.5	10.1	0.365	0.307	0.920	6.33	0.905	8.49	1978
1979	0.818	0.948	2.23	15.6	54.6	57.4	46.8	33.7	26.1	21.5	18.5	17.0	24.7	1979
1980	15.6	13.4	12.3	13.7	3.06	0.445	0.239	0.299	0.339	0.273	2.17	8.09	5.81	1980
1981	7.63	7.35	2.13	1.14	0.122	0.238	0.182	0.196	0.190	0.152	0.752	6.14	2.16	1981
1982	8.00	7.25	3.18	3.75	15.2	4.10	2.30	0.945	0.388	0.273	0.398	4.36	4.17	1982
MEAN	6.47	5.77	5.14	11.5	20.5	19.6	16.9	11.5	8.24	8.68	7.68	6.92	11.5	MEAN

LOCATION - LAT 51 27 00 N DRAINAGE AREA, 8 700 km²
LONG 99 58 00 W REGULATED

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	---	---	---	1956
1957	37.1 AT 12:10 CST ON MAY 19	33.7 ON MAY 19	1.76 ON NOV 7	454 000	1957
1958	9.85 AT 12:40 CST ON APR 18	8.21 ON APR 18	0.311B ON DEC 30	55 800	1958
1959	17.7 AT 15:50 CST ON AUG 1	4.13 ON MAY 9	0.227B ON FEB 2	46 000	1959
1960	38.8 AT 07:30 CST ON JUN 17	34.5 ON JUN 7	0.991B ON JAN 14	372 000	1960
1961	---	7.56 A ON JAN 8	---	---	1961
1962	---	---	---	---	1962
1963	3.96 AT 06:10 CST ON JUN 22	2.30 ON JUN 21	0 B ON JAN 16 *	17 400	1963
1964	---	0.697B ON JAN 21	0 E ON JUN 21	---	1964
1965	---	---	---	---	1965
1966	39.6 AT 03:20 CST ON MAY 21	37.7 ON MAY 21	0.156B ON JAN 10	498 000	1966
1967	39.6 AT 23:00 CST ON MAY 21	37.9 ON MAY 21	0.122 ON OCT 24	371 000	1967
1968	---	3.82 ON MAY 6	0.133 ON MAY 15	31 100	1968
1969	---	27.3 ON AUG 5	0.334B ON MAR 26	337 000	1969
1970	---	49.0 ON MAY 24	0.501B ON MAR 11	636 000	1970
1971	---	29.7 ON JUN 14	0.012 ON OCT 29	411 000	1971
1972	---	41.6 ON JUN 1	0.127 ON OCT 17	355 000	1972
1973	---	2.80 B ON FEB 17	0.085 ON OCT 7	25 000	1973
1974	---	79.6 ON MAY 27 *	1.28 B ON JAN 1	965 000	1974
1975	---	48.7 ON OCT 5	3.17 ON AUG 25	801 000	1975
1976	---	61.4 ON JUN 23	3.77 ON DEC 19	946 000	1976
1977	---	22.5 ON OCT 22	0.218 ON AUG 10	221 000	1977
1978	---	26.3 ON JUN 9	0.113 ON JUL 29	268 000	1978
1979	69.2 AT 15:11 CST ON JUN 5 *	64.7 ON JUN 5	0.657B ON JAN 10	780 000	1979
1980	17.8 AT 08:31 CST ON JAN 12	17.5 ON JAN 12	0.139 ON JUN 26	184 000	1980
1981	11.2 AT 21:55 CST ON DEC 17	10.8 ON DEC 18	0.042E ON OCT 17	68 100	1981
1982	20.4 AT 13:15 CST ON MAY 23	17.8 ON MAY 23	0.015E ON OCT 21	131 000	1982
MEAN				362 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOWBRAY CREEK NEAR MOWBRAY - STATION NO. 05OB021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	1.76	0.072	0.083	0.003	0	0	0	---	---	0.235	1962
1963	---	---	0.010	0.030	0.002	0.108	0.040	0.009	0.001	0	---	---	0.025	1963
1964	---	---	0	0.269	0.025	0.015	0.006	0	0	0	---	---	0.039	1964
1965	---	---	0	1.41	0.332	0.053	0.001	0	0	0	---	---	0.221	1965
1966	---	---	1.41	2.55	1.33	0.148	0.057	0.038	0.010	0	---	---	0.690	1966
1967	---	---	0.052	2.93	1.70	0.067	0.002	0	0	0	---	---	0.590	1967
1968	---	---	0.071	0.176	0.001	0	0	0	0	0	---	---	0.031	1968
1969	---	---	0	3.66	0.182	0.369	0.150	0.034	0	0	---	---	0.540	1969
1970	---	---	0	3.25	0.909	0.784	0.606	0.044	0.008	0.008	---	---	0.693	1970
1971	---	---	0	5.84	0.363	0.092	0.033	0	0	0	---	---	0.776	1971
1972	---	---	0.818	1.14	0.140	0.016	0	0	0	0	---	---	0.263	1972
1973	---	---	0.300	0.030	0	0	0	0	0	0	---	---	0.042	1973
1974	---	---	0	5.88	4.51	0.454	0.025	0	0	0	---	---	1.35	1974
1975	---	---	0	0.527	0.293	0.005	0.002	0	0	0	---	---	0.102	1975
1976	---	---	0	3.42	0.061	0.024	0.009	0.004	0	0	---	---	0.431	1976
1977	---	---	0.001	0.079	0.002	0	0	0	0.101	0	---	---	0.022	1977
1978	---	---	0.005	3.03	0.204	0.031	0.029	0.002	0	0	---	---	0.405	1978
1979	---	---	0	5.04	2.28	0.024	0.250	0.113	0.226	0.129	---	---	0.998	1979
1980	---	---	0.004	0.419	0.222	0.098	0.032	0.047	0.058	0.146	---	---	0.128	1980
1981	---	0.161	0.365	0.118	0.059	0.031	0.012	0.026	0.006	0.089	---	---	0.078	1981
1982	---	---	0.032	0.948	0.166	0.142	0.112	0.004	0	0.072	---	---	0.182	1982
MEAN	---	0.161	0.146	2.02	0.612	0.121	0.065	0.015	0.020	0.017	---	---	0.373	MEAN

LOCATION - LAT 49 00 00 N LONG 98 27 15 W DRAINAGE AREA, 262 km^2 NATURAL FLOW

MOWBRAY CREEK NEAR MOWBRAY - STATION NO. 05OB021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	8.64 ON APR 20	0B ON MAR 1 *	4 980	1962
1963	---	0.261 ON JUN 25	0B ON MAR 1	526	1963
1964	---	0.646 ON APR 16	0B ON MAR 1	818	1964
1965	---	5.72 B ON APR 13	0B ON MAR 1	4 680	1965
1966	---	8.64 B ON MAR 29	0B ON MAR 1	14 600	1966
1967	---	11.1 ON APR 24	0B ON MAR 1	12 500	1967
1968	---	0.498 ON APR 9	0B ON MAR 1	649	1968
1969	---	10.7 B ON APR 15	0B ON MAR 1	11 400	1969
1970	---	10.5 ON APR 27	0B ON MAR 1	14 700	1970
1971	---	17.8 ON APR 12	0B ON MAR 1	16 400	1971
1972	---	3.91 B ON MAR 21	0B ON MAR 1	5 560	1972
1973	---	1.89 B ON MAR 18	0B ON MAR 1	881	1973
1974	19.0 AT 12:13 CST ON APR 21	18.6 ON APR 21	0B ON MAR 1	28 500	1974
1975	---	1.68 B ON APR 15	0B ON MAR 1	2 160	1975
1976	12.9 AT 11:13 CST ON APR 7	12.7 ON APR 7	0B ON MAR 1	9 120	1976
1977	0.824 AT 13:00 CST ON SEP 8	0.589B ON APR 5	0B ON MAR 1	473	1977
1978	---	10.7 B ON APR 11	0B ON MAR 1	8 570	1978
1979	22.0 AT 00:00 CST ON APR 25 *	20.0 ON APR 25 *	0B ON MAR 1	21 200	1979
1980	8.77 AT 00:26 CST ON MAY 29	4.24 ON MAY 29	0B ON MAR 1	2 700	1980
1981	3.57 AT 20:22 CST ON MAY 22	0.733B ON MAR 20	0A ON JUL 8	1 660	1981
1982	9.90 B AT 16:28 CST ON APR 14	7.12 B ON APR 14	0B ON MAR 1	3 860	1982
				7 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NEEPAWA CREEK NEAR NEEPAWA - STATION NO. 05LL009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.762	0.306	0.881	0.024	0	0	0.003	0.060	---	---	0.155	1959
1960	---	---	0	5.31	0.657	0.214	0.014	0	0	0.028	---	---	0.765	1960
1961	---	---	0.010	0.283	0.159	0.009	0	0	0	0	---	---	0.057	1961
1962	---	---	0	1.99	0.159	0.037	0.137	0.141	0.054	0.061	---	---	0.318	1962
1963	---	---	1.17	0.993	0.180	0.890	0.638	0.010	0.009	0.008	---	---	0.486	1963
1964	---	---	0	0.951	0.304	0.035	0.011	0.003	0.007	0.025	---	---	0.165	1964
1965	---	---	0	4.31	0.599	0.329	0.803	0.294	0.535	0.130	---	---	0.864	1965
1966	---	---	0.334	1.94	0.687	0.241	0.108	0.026	0.001	0.026	---	---	0.417	1966
1967	---	---	0.014	3.86	0.424	0.057	0.010	0	0	0.011	---	---	0.537	1967
1968	---	---	0.857	0.405	0.125	0.044	0.038	0.038	0.046	0.043	---	---	0.200	1968
1969	---	---	0.017	5.31	0.379	0.496	1.70	0.186	0.049	0.082	---	---	1.02	1969
1970	---	---	0.025	4.92	4.30	0.231	0.348	0.219	0.032	0.076	---	---	1.26	1970
1971	---	---	0	1.92	0.258	2.62	0.906	0.043	0.031	0.160	---	---	0.733	1971
1972	---	---	0.101	3.51	0.680	0.077	0.033	0.015	0.017	0.049	---	---	0.552	1972
1973	---	---	0.233	0.150	0.116	0.042	0.008	0.006	0.173	0.068	---	---	0.099	1973
1974	---	---	0.054	3.95	2.38	0.176	0.015	0.002	0.018	0.032	---	---	0.821	1974
1975	---	---	0.028	2.77	0.804	0.211	0.050	1.06	1.19	0.229	---	---	0.785	1975
1976	---	---	0.083	4.58	0.249	0.283	0.053	0.012	0.008	0.039	---	---	0.652	1976
1977	---	---	0.032	0.175	0.105	0.062	0.091	0.059	0.117	0.075	---	---	0.089	1977
1978	---	---	0.020	1.62	0.581	0.111	0.011	0.005	0.036	0.045	---	---	0.300	1978
1979	---	---	0.015	5.28	3.22	0.269	0.027	0.004	0.017	0.041	---	---	1.10	1979
1980	---	---	0	0.620	0.051	0.012	0.007	0.166	0.160	0.177	---	---	0.148	1980
1981	---	0.307	0.672	0.457	0.092	0.091	0.003	0.048	0.065	0.089	---	---	0.189	1981
1982	---	---	0.118	1.98	0.135	0.066	0.073	0.016	0.019	0.075	---	---	0.306	1982
MEAN	---	0.307	0.189	2.40	0.697	0.276	0.212	0.098	0.108	0.068	---	---	0.501	MEAN

LOCATION - LAT 50 13 58 N   DRAINAGE AREA, 165 km^2
LONG 99 34 00 W   NATURAL FLOW

NEEPAWA CREEK NEAR NEEPAWA - STATION NO. 05LL009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	6.12 B ON MAR 26	0 B ON MAR 1 *	3 280	1959
1960	---	16.5 ON APR 16	0 B ON MAR 1	16 200	1960
1961	---	0.963 ON APR 21	0 B ON MAR 1	1 210	1961
1962	---	12.5 ON APR 21	0 B ON MAR 1	6 740	1962
1963	---	8.38 ON MAR 29	0 B ON MAR 1	10 300	1963
1964	---	2.15 ON APR 14	0 B ON MAR 1	3 490	1964
1965	---	20.6 ON APR 13	0 B ON MAR 1	18 300	1965
1966	---	10.9 ON APR 2	0 B ON MAR 1	8 830	1966
1967	---	22.9 ON APR 15	0 ON JUL 13	11 400	1967
1968	---	5.10 B ON MAR 28	0 ON JUL 16	4 230	1968
1969	---	34.0 ON APR 13	0.009 ON JUN 23	21 500	1969
1970	---	25.0 ON APR 29	0 ON AUG 13	26 800	1970
1971	---	7.82 ON JUN 10	0 B ON MAR 1	15 500	1971
1972	---	11.0 B ON APR 17	0 B ON MAR 1	11 700	1972
1973	---	2.92 ON SEP 4	0 ON JUL 19	2 100	1973
1974	---	14.6 ON APR 21	0 ON JUL 25	17 300	1974
1975	---	18.9 ON APR 29	0.023E ON JUL 28	16 600	1975
1976	13.7 AT 03:21 CST ON APR 10	12.7 ON APR 9	0 ON JUL 27	13 800	1976
1977	---	0.416 ON SEP 25	0 B ON MAR 1	1 890	1977
1978	10.5 AT 11:29 CST ON MAY 25	4.84 B ON APR 18	0 ON AUG 9	6 350	1978
1979	48.1 AT 18:30 CST ON APR 21 *	35.0 ON APR 21 *	0 ON AUG 19	23 300	1979
1980	5.04 AT 17:39 CST ON APR 4	2.22 B ON APR 4	0 B ON MAR 1	3 130	1980
1981	3.17 AT 03:08 CST ON AUG 31	1.22 ON AUG 31	0 ON JUL 6	4 010	1981
1982	8.42B AT 21:35 CST ON APR 15	7.78 B ON APR 15	0 B ON MAR 1	6 470	1982
				10 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	361	307	177	---	1967
1968	174	175	165	220	330	380	385	383	406	383	394	260	305	1968
1969	281	300	312	422	596	597	592	577	575	580	521	412	481	1969
1970	398	398	393	481	675	720	761	682	554	483	457	357	531	1970
1971	365	372	371	469	668	659	578	525	448	400	293	305	455	1971
1972	319	316	320	496	673	648	563	487	402	348	297	202	423	1972
1973	197	232	275	355	367	388	456	436	366	356	231	187	321	1973
1974	---	177	294	474	699	879	883	814	708	---	---	---	---	1974
1975	362	401	392	445	675	702	718	711	654	531	404	274	523	1975
1976	246	241	250	362	420	426	424	451	358	218	92.4	86.7	298	1976
1977	84.1	83.8	84.4	115	183	---	180	178	185	226	165	125	---	1977
1978	118	121	129	171	449	503	551	546	541	495	387	236	355	1978
1979	177	182	222	282	440	587	569	549	532	447	292	207	375	1979
1980	213	214	216	324	472	477	508	488	478	400	304 R	208 R	359R	1980
1981	176	173	186	240	315	349	424	430	386	330	211 R	151 R	282R	1981
1982	133	126	123	171	385	483	552	583	463	375	289	212	326	1982
MEAN	232	234	249	335	490	557	543	523	470	396	310 R	227 R	387	MEAN

LOCATION - LAT 54 14 39 N
LONG 97 35 27 W   REGULATED SINCE 1973

R - REVISED SINCE JAN 1980

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	487 ON NOV 13	159 B ON MAR 25	9 640 000	1968
1969	680 AT 07:14 CST ON MAY 26	668 ON MAY 26	273 B ON JAN 1	15 200 000	1969
1970	827 AT 15:03 CST ON AUG 9 *	807 ON JUL 22 *	328 ON OCT 3	16 800 000	1970
1971	759 AT 01:00 CST ON MAY 29	725 ON MAY 28	185 ON NOV 7	14 400 000	1971
1972	733 AT 12:07 CST ON MAY 9	728 ON MAY 15	183 B ON DEC 30	13 400 000	1972
1973	513 AT 12:10 CST ON JUL 12	498 ON JUL 12	167 B ON DEC 30	10 100 000	1973
1974	---	---	---	---	1974
1975	---	790 ON AUG 7	254 B ON DEC 30	16 500 000	1975
1976	527 AT 14:00 CST ON AUG 18	513 ON AUG 18	85.0B ON DEC 31 *	9 450 000	1976
1977	---	---	---	---	1977
1978	643 AT 15:20 CST ON SEP 23	623 ON SEP 23	117 B ON JAN 15	11 200 000	1978
1979	667 AT 19:36 CST ON JUN 25	646 ON JUL 8	169 B ON JAN 21	11 800 000	1979
1980	598 AT 09:40 CST ON AUG 29	570 ON AUG 29	[illegible]2 B ON DEC 31	11 300 000R	1980
1981	520 AT 14:10 CST ON SEP 23	499 ON SEP 23	140 RB ON DEC 30	8 880 000R	1981
1982	763 AT 19:30 CST ON AUG 8	735 ON AUG 9	122 B ON MAR 15	10 300 000	1982
				12 200 000R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO. 05UB009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	2 860	2 700	2 550	2 340	---	---	---	1967
1968	---	---	---	---	---	2 390	2 400	2 390	2 470	---	---	---	---	1968
1969	---	---	---	---	2 850	2 810	2 830	2 770	2 770	---	---	---	---	1969
1972	1 810	1 770	1 850	2 050	2 750	2 980	2 780	2 600	2 340	2 160	1 910	1 700	2 230	1972
1973	1 490	1 460	1 490	1 670	---	---	---	---	---	---	---	---	---	1973
1976	2 060	1 830	1 740	1 980	3 080	2 600	2 040	1 400	1 330	2 000	1 780	1 610	1 950	1976
1977	1 410	1 330	1 300	833	664	826	750	767	784	1 180	1 880	1 610	1 110	1977
1978	1 560	1 480	1 410	1 390	856	613	562	715	1 070	2 120	2 270	2 310	1 360	1978
1979	2 060	1 970	1 930	1 960	2 890	3 480	3 440	1 120	1 050	1 940	2 430	1 960	2 190	1979
1980	1 790	1 760	1 670	1 350	517	666	486	628	691	1 690	1 970	2 050	1 270	1980
1981	1 930	1 710	1 090	569	469	492	658	652	1 070	1 920	2 190	1 800	1 210	1981
1982	1 680	1 520	1 410	1 300	1 020	752	850	1 110	1 860	2 220	2 140	2 030	1 490	1982
MEAN	1 750	1 650	1 540	1 460	1 680	1 760	1 790	1 530	1 640	1 950	2 070	1 880	1 600	MEAN

LOCATION - LAT 54 29 53 N
LONG 98 02 53 W REGULATED SINCE 1975

DATA CONTRIBUTED BY -
MANITOBA HYDRO

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO. 05UB009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	3 060 AT 15:29 CST ON JUL 10	3 000 ON JUL 10	---	---	1967
1968	2 640 AT 13:50 CST ON SEP 15	2 590 ON SEP 16	---	---	1968
1969	3 000 AT 04:14 CST ON MAY 26	2 970 ON MAY 26	---	---	1969
1972	3 140 AT 12:41 CST ON MAY 30 *	3 090 ON MAY 22	1 600B ON DEC 31	70 400 000	1972
1973	---	---	---	---	1973
1976	---	3 260 ON MAY 28	878 ON JUL 19	61 800 000	1976
1977	---	2 190 ON NOV 16	578 ON MAY 19	35 000 000	1977
1978	---	2 470 ON DEC 2	527 ON JUL 2	43 000 000	1978
1979	---	3 650 ON JUL 9 *	450 ON AUG 20	69 000 000	1979
1980	---	2 260 ON DEC 5	254 ON MAY 16 *	40 200 000	1980
1981	---	2 280 ON OCT 23	379 ON JUN 7	38 100 000	1981
1982	---	2 320 ON NOV 10	733 ON MAY 27	47 000 000	1982
MEAN				50 600 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	2 090	2 030	1 810	---	1958
1959	1 350	1 280	1 040	1 110	2 090	2 750	2 970	2 940	2 930	2 710	2 420	1 870	2 130	1959
1960	1 750	1 860	1 980	2 020	2 650	3 180	3 040	2 840	2 690	2 450	2 130	1 650	2 350	1960
1961	1 390	1 380	1 360	1 520	1 920	2 150	2 080	1 970	1 810	1 650	1 380	852	1 620	1961
1962	853	826	769	815	1 760	2 040	2 230	2 260	2 370	2 450	2 200	1 550	1 680	1962
1963	986	948	1 240	1 580	2 070	2 470	2 650	2 510	2 440	2 320	2 050	1 680	1 920	1963
1964	1 420	1 330	1 210	1 210	1 930	2 200	2 280	2 240	2 210	2 100	1 970	1 600	1 810	1964
1965	1 350	1 320	1 350	1 580	2 490	3 280	3 400	3 410	3 260	3 220	2 590	2 550	2 490	1965
1966	2 260	2 090	2 140	2 580	3 300	4 270	4 540	4 230	3 890	3 520	2 720	2 350	3 160	1966
1967	2 330	2 240	2 210	2 290	3 090	3 750	3 640	3 320	3 060	2 600	2 300	2 010	2 740	1967
1968	1 960	1 850	1 760	1 770	2 240	2 610	2 690	2 610	2 740	2 700	2 540	1 990	2 290	1968
1969	2 090	2 150	2 340	2 700	3 310	3 310	3 270	3 230	3 350	3 290	3 130	2 680	2 910	1969
1970	2 530	2 460	2 740	2 790	3 250	3 640	3 820	3 600	3 240	2 940	3 000	2 580	3 050	1970
1971	2 200	2 390	2 450	2 760	3 440	3 590	3 410	3 120	2 920	2 710	2 280	2 010	2 780	1971
1972	1 940	2 050	2 360	2 570	3 380	3 610	3 410	3 090	2 790	2 540	2 210	1 870	2 650	1972
1973	2 010	2 030	2 100	2 170	2 400	2 030	1 920	1 830	1 630	1 800	1 970	1 850	1 980	1973
1974	1 830	1 750	1 820	2 410	3 330	4 160	4 480	4 270	3 860	3 690	3 330	2 580	3 130	1974
1975	2 180	2 160	2 510	2 780	3 380	3 720	3 190	3 330	3 050	3 750	3 650	3 080	3 070	1975
1976	3 310	2 820	2 450	2 520	3 150	3 220	2 810	2 060	1 750	2 270	2 230	2 350	2 580	1976
1977	1 560	1 490	1 440	1 050	922	1 060	1 060	1 020	1 050	1 300	2 350	1 940	1 350	1977
1978	1 740	1 630	1 590	1 620	1 680	1 180	1 180	1 360	1 590	2 640	2 970	2 750	1 820	1978
1979	2 360	2 220	2 200	2 300	3 490	4 570	4 420	2 320	1 550	2 290	3 020R	2 330R	2 760R	1979
1980	2 130	2 060	1 970	1 960	1 160	1 200	1 000	1 150	1 250	2 060	2 440	2 350	1 730	1980
1981	2 220	1 990	1 550	1 110	1 040	915	1 210	1 170	1 420	2 240	2 740	2 210	1 650	1981
1982	1 960	1 790	1 650	1 610	1 770	1 410	1 490	1 740	2 370	2 830	2 990	2 730	2 030	1982
MEAN	1 900	1 840	1 840	1 950	2 470	2 760	2 760	2 570	2 470	2 570	2 510R	2 130R	2 320	MEAN

LOCATION - LAT 54 46 30 N DRAINAGE AREA, 1 000 000 km^2
LONG 97 55 50 W REGULATED SINCE 1973

R - REVISED SINCE JAN 1980

REMARKS - FOR THE PERIOD 1914-51 LAKE WINNIPEG ELEVATION WERE USED TO COMPUTE MONTHLY MEAN DISCHARGES FOR THIS STATION

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	3 060 ON SEP 9	966B ON MAR 31	67 100 000	1959
1960	---	3 260 ON JUN 15	1 490B ON DEC 31	74 400 000	1960
1961	---	2 220 ON JUN 7	697B ON DEC 20 *	51 100 000	1961
1962	---	2 550 ON OCT 11	728B ON APR 15	53 000 000	1962
1963	---	2 720 ON JUN 30	917B ON FEB 3	60 500 000	1963
1964	---	2 360 ON AUG 5	1 190B ON MAR 21	57 200 000	1964
1965	---	3 510A ON JUN 28	1 310B ON JAN 11	78 500 000	1965
1966	---	4 620 ON JUL 12	2 050B ON FEB 5	99 900 000	1966
1967	3 850 AT 08:40 CST ON JUN 6	3 820 ON JUN 6	1 980B ON DEC 21	86 400 000	1967
1968	---	2 860 ON SEP 21	1 700 ON APR 8	72 400 000	1968
1969	3 570 AT 10:42 CST ON SEP 5	3 540 ON SEP 5	1 930B ON JAN 1	91 700 000	1969
1970	3 940 AT 21:33 CST ON JUL 15	3 910 ON JUL 11	2 350B ON DEC 31	96 200 000	1970
1971	3 650 AT 02:00 CST ON MAY 29	3 650 ON MAY 29	1 990B ON DEC 21	87 600 000	1971
1972	3 880 AT 02:11 CST ON JUN 14	3 820 ON JUN 14	1 760B ON DEC 11	83 900 000	1972
1973	2 540 AT 05:34 CST ON MAY 28	2 530 ON MAY 25	1 500 ON SEP 16	62 400 000	1973
1974	4 590 AT 04:00 CST ON JUL 15	4 560 ON JUL 14	1 670B ON FEB 27	98 800 000	1974
1975	---	3 940E ON AUG 26	2 020B ON JAN 30	96 900 000	1975
1976	---	3 620E ON JAN 1	1 680 ON SEP 15	81 600 000	1976
1977	2 530 AT 08:07 CST ON NOV 20	2 530 ON NOV 20	878E ON MAY 10	42 600 000	1977
1978	3 170 AT 07:00 CST ON NOV 5	3 140 ON NOV 5	1 120 ON JUN 9	57 500 000	1978
1979	4 790 AT 14:45 CST ON JUN 20 *	4 750 ON JUN 20 *	1 250 ON AUG 31	87 100 000R	1979
1980	2 590 AT 18:27 CST ON NOV 3	2 590 ON NOV 3	864 ON JUL 12	54 600 000	1980
1981	2 880 AT 21:15 CST ON NOV 7	2 860 ON NOV 8	791 ON JUN 17	52 000 000	1981
1982	3 110 AT 19:18 CST ON NOV 11	3 070 ON NOV 12	1 380 ON JUN 3	64 000 000	1982
				73 200 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	3 280	3 080	2 900	2 640	1 920	1 450	---	1960
1961	1 520	1 440	1 390	1 370	1 910	1 940	2 070	1 990	1 850	1 630	1 340	1 020	1 620	1961
1962	975	886	810	783	1 660	2 000	2 110	2 140	2 150	2 370	2 170	1 790	1 660	1962
1963	1 550	1 440	1 440	1 450	2 410	2 570	2 870	2 680	2 530	2 430	2 160	1 630	2 100	1963
1964	1 420	1 380	1 240	1 240	2 040	2 350	2 330	2 400	2 440	2 330	2 130	1 710	1 920	1964
1965	1 480	1 450	1 430	1 420	2 730	3 300	3 610	3 540	3 520	3 310	2 780	2 670	2 610	1965
1966	2 340	2 230	2 290	2 400	3 290	4 400	4 800	4 530	4 060	3 670	2 860	2 430	3 280	1966
1967	2 380	2 290	2 260	2 300	2 910	3 920	3 790	3 450	3 110	2 770	2 350	1 940	2 790	1967
1968	1 720	1 700	1 690	1 740	2 460	2 720	2 780	2 670	2 790	2 770	2 660	2 510	2 350	1968
1969	2 300	2 170	2 420	2 660	3 280	3 320	3 230	3 380	3 640	3 670	3 060	2 890	3 010	1969
1970	2 550	2 520	2 510	2 600	3 320	3 810	4 110	3 900	3 570	3 110	2 970	2 340	3 110	1970
1971	2 370	2 280	2 480	2 640	3 560	3 820	3 790	3 360	3 140	2 900	2 400	2 200	2 920	1971
1972	2 070	2 040	2 130	2 360	3 550	3 930	3 750	3 260	2 920	2 620	2 140	1 730	2 710	1972
1973	1 780	1 770	1 790	1 990	2 430	2 170	1 860	1 800	1 600	1 700	1 980	1 940	1 900	1973
1974	1 890	1 920	2 030	2 140	2 760	3 410	3 880	3 870	3 590	3 440	3 060	2 370	2 870	1974
1975	2 320	2 270	2 380	2 340	2 920	3 210	3 050	2 860	2 760	3 110	3 180	2 410	2 740	1975
1976	2 470	2 170	2 030	2 170	2 820	3 000	2 880	2 040	1 740	1 940	2 020	1 840	2 260	1976
1977	1 710	1 640	1 660	1 550	857	1 100	1 150	999	1 210	1 270	1 850	1 900	1 410	1977
1978	1 790	1 830	1 960	1 690	1 430	1 250	1 170	1 250	1 440	2 180	2 500	2 560	1 750	1978
1979	2 490	2 540	2 420	2 080	2 910	3 900	4 030	2 890	1 530	1 830	2 450	2 290	2 610	1979
1980	2 100	2 070	2 160	1 980	1 340	1 180	979	1 090	1 320	1 740	2 140	2 150	1 680	1980
1981	2 140	2 170	1 820	915	940	966	1 320	952	1 320	1 770	2 330	2 170	1 560	1981
1982	1 840	1 800	1 690	1 610	1 890	1 460	1 500	1 490	1 860	2 330	2 440	2 300	1 850	1982
MEAN	1 960	1 910	1 910	1 880	2 430	2 710	2 800	2 590	2 480	2 500	2 390	2 100	2 310	MEAN

LOCATION - LAT 56 02 20 N LONG 96 31 30 W

DRAINAGE AREA, 1 010 000 km^2 REGULATED SINCE 1960

DATA CONTRIBUTED BY - MANITOBA HYDRO

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	2 560 ON AUG 2	881 ON DEC 20	51 200 000	1961
1962	---	2 510 ON OCT 18	742 ON APR 14	52 300 000	1962
1963	---	3 000 ON JUL 11	1 310 ON APR 14	66 200 000	1963
1964	---	2 690 ON SEP 13	1 150 ON APR 6	60 800 000	1964
1965	---	3 770 ON SEP 14	1 270 ON APR 11	82 400 000	1965
1966	---	4 980 ON JUL 22 *	2 160 ON FEB 3	103 000 000	1966
1967	---	4 020 ON JUN 8	1 610 ON DEC 31	88 000 000	1967
1968	---	3 340 ON DEC 25	1 570 ON MAR 5	74 400 000	1968
1969	---	3 820 ON SEP 9	2 040 ON JAN 14	94 900 000	1969
1970	---	4 190 ON JUL 6	2 260 ON DEC 16	98 100 000	1970
1971	---	3 990 ON JUL 9	1 950 ON NOV 22	92 100 000	1971
1972	---	4 160 ON JUN 16	1 600 ON DEC 13	85 700 000	1972
1973	---	2 660 ON JUN 4	1 440 ON SEP 13	60 000 000	1973
1974	---	3 960 ON JUL 29	1 830 ON FEB 5	90 500 000	1974
1975	---	3 430 ON JUL 1	2 200 ON FEB 6	86 300 000	1975
1976	---	3 170 ON JUN 8	1 600 ON SEP 18	71 500 000	1976
1977	---	2 120 ON NOV 18	419 ON MAY 8 *	44 300 000	1977
1978	---	2 750 ON NOV 7	971 ON JUL 10	55 300 000	1978
1979	---	4 080 ON JUL 7	1 380 ON SEP 6	82 500 000	1979
1980	---	2 260 ON MAR 10	684 ON JUL 21	53 300 000	1980
1981	---	2 470 ON NOV 29	497 ON AUG 3	49 300 000	1981
1982	---	2 690 ON NOV 10	1 090 ON JUL 1	58 400 000	1982
				72 800 000	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO. 05UE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1951	---	---	---	---	---	---	---	3 310	3 180	3 110	2 550	2 010	---	1951
1952	1 770	1 700	1 650	1 710	2 610	2 860	2 980	2 910	2 860	2 720	2 520	2 150	2 370	1952
1953	1 910	1 760	1 670	1 650	2 090	2 500	2 940	3 100	3 100	3 120	2 980	2 430	2 440	1953
1954	2 120	1 840	1 610	1 590	2 180	2 870	3 270	3 540	3 570	3 530	3 370	3 110	2 720	1954
1955	2 830	2 460	2 240	2 180	3 090	3 510	3 800	3 780	3 580	3 360	2 860	2 550	3 020	1955
1956	2 420	2 170	2 080	2 020	2 830	3 400	3 450	3 410	3 250	2 940	2 740	2 210	2 750	1956
1957	1 900	1 760	1 700	1 660	2 210	2 730	2 950	2 950	2 820	2 700	2 270	1 840	2 300	1957
1958	1 640	1 530	1 500	1 590	2 030	2 310	2 250	2 280	2 260	---	---	---	---	1958
MEAN	2 080	1 890	1 780	1 770	2 430	2 880	3 090	3 160	3 080	3 070	2 760	2 330	2 600	MEAN

LOCATION - LAT 55 13 24 N DRAINAGE AREA, 1 010 000 km^2
LONG 97 13 06 W NATURAL FLOW

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO. 05UE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1951	---	---	---	---	1951
1952	---	3 030 ON JUL 23	1 650E ON MAR 1	75 000 000	1952
1953	---	3 140 ON SEP 30	1 650E ON APR 1	77 000 000	1953
1954	---	3 600 ON SEP 3	1 590E ON APR 1	85 900 000	1954
1955	3 850 AT 09:00 CST ON JUL 21 *	3 850 ON JUL 16 *	2 180E ON APR 1	95 400 000	1955
1956	3 480 AT 02:00 CST ON JUL 23	3 480 ON JUL 23	2 020E ON APR 1	86 800 000	1956
1957	3 030 AT 20:00 CST ON AUG 7	3 000 ON JUL 29	1 660E ON APR 1	72 400 000	1957
1958	---	2 340 ON JUN 12	1 500E ON MAR 1 *	---	1958
				82 100 000	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NETLEY CREEK NEAR MATLOCK - STATION NO. 05OJ009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.43	0.409	0.086	0.010	0.051	0.024	0.004	---	---	0.478	1960
1961	---	---	0.069	0.361	0.024	0	0	0	0	0	---	---	0.113	1961
1962	---	---	0	0.353	0.104	0.159	0	0.831	0.186	0.069	---	---	0.152	1962
1963	---	---	0.515	4.42	1.87	2.94	0.601	0.078	0	0	---	---	2.42	1963
1964	---	---	0	0.186	0.064	0.087	0.040	0.050	0	0	---	---	0.083	1964
1965	---	---	0	1.01	0.493	0.418	0.116	0.007	0.003	0.003	---	---	0.476	1965
1966	---	---	0.100	0.741	0.898	0.094	0.082	0.003	0	0	---	---	0.459	1966
1967	---	---	0	1.48	0.457	0.016	0	0	0	0	---	---	0.483	1967
1968	---	---	0.083	0.076	0.033	0.011	0.009	0.302	0.048	0.027	---	---	0.051	1968
1969	---	---	0	2.17	0.837	0.235	0.083	0.028	0.006	0.006	---	---	0.805	1969
1970	---	---	0	0.943	1.04	0.297	0.104	0.015	0	0.001	---	---	0.570	1970
1971	---	---	0	0.867	0.124	0.010	0.006	0.001	0	0	---	---	0.247	1971
1972	---	---	0	0.865	0.043	0.002	0	0	0	0	---	---	0.224	1972
1973	---	---	0.032	0.002	0.003	0.429	---	---	---	---	---	---	0.115	1973
1974	---	---	0	7.44	7.26	1.46	---	---	---	---	---	---	4.03	1974
1975	---	---	0	0.349	0.105	0.012	---	---	---	---	---	---	0.115	1975
1976	---	---	0	3.55	0.994	0.082	---	---	---	---	---	---	1.15	1976
1977	---	---	0	0.002	0	0.004	---	---	---	---	---	---	0.002	1977
1978	---	---	0	3.48	0.775	0.187	---	---	---	---	---	---	1.10	1978
1979	---	---	0	2.65	3.92	1.78	---	---	---	---	---	---	2.09	1979
1980	---	---	0	0.177	0	0	---	---	---	---	---	---	0.044	1980
1981	---	---	0.011	0.008	0.002	0.003	---	---	---	---	---	---	0.006	1981
1982	---	---	0.271	2.03	0.062	0.009	---	---	---	---	---	---	0.585	1982
MEAN	---	---	0.047	1.50	0.849	0.362	0.081	0.105	0.021	0.008	---	---	0.687	MEAN

LOCATION - LAT 50 26 52 N   DRAINAGE AREA, 245 km²
LONG 97 09 56 W   NATURAL FLOW

REMARKS - HIGHER MAX DISCHARGES OCCURRED OUTSIDE THE STD PER IN 1964 AND 68. EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

NETLEY CREEK NEAR MATLOCK - STATION NO. 05OJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	4.81 B ON APR 17	0B ON MAR 1 *	5 030	1960
1961	---	0.580 ON APR 2	0B ON MAR 1	1 190	1961
1962	---	3.26 ON APR 20	0B ON MAR 1	1 610	1962
1963	---	8.27 ON APR 8	0B ON MAR 1	25 400	1963
1964	---	0.617 ON APR 18	0B ON MAR 1	878	1964
1965	---	5.15 B ON APR 14	0B ON MAR 1	5 020	1965
1966	---	3.99 ON MAY 5	0B ON MAR 1	4 830	1966
1967	---	4.02 B ON APR 14	0B ON MAR 1	5 090	1967
1968	---	1.11 B ON MAR 30	0B ON MAR 1	535	1968
1969	---	8.01 B ON APR 13	0B ON MAR 1	8 480	1969
1970	---	4.64 B ON APR 19	0B ON MAR 1	6 000	1970
1971	---	4.47 ON APR 19	0B ON MAR 1	2 610	1971
1972	---	4.42 ON APR 16	0B ON MAR 1	2 360	1972
1973	---	1.68 ON JUN 19	0B ON MAR 1	1 210	1973
1974	---	26.7 ON APR 22 *	0B ON MAR 1	42 500	1974
1975	---	1.13 B ON APR 23	0B ON MAR 1	1 220	1975
1976	---	7.05 ON APR 13	0B ON MAR 1	12 100	1976
1977	---	0.028 ON JUN 19	0B ON MAR 1	16.4	1977
1978	---	6.71 ON APR 13	0B ON MAR 1	11 600	1978
1979	---	9.64 ON APR 22	0B ON MAR 1	22 000	1979
1980	---	0.672B ON APR 14	0B ON MAR 1	459	1980
1981	0.779 AT 09:31 CST ON MAY 8 *	0.083E ON MAR 29	0B ON MAR 1	63.6	1981
1982	---	7.03 B ON APR 13	0B ON MAR 1	6 170	1982
MEAN				7 230	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

NETLEY CREEK NEAR PETERSFIELD - STATION NO. 05OJ008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.024	8.31	1.14	0.295	0.107	0.120	0.089	0.003	---	---	1.24	1960
1961	---	---	0.632	1.73	0.309	0.028	0.001	0	0	0.002	---	---	0.334	1961
1962	---	---	0	3.11	0.353	0.262	0.082	2.14	0.441	0.301	---	---	0.830	1962
1963	---	---	2.22	10.6	2.41	5.89	0.907	0.230	0.047	0.076	---	---	2.76	1963
1964	---	---	0.008	1.94	0.324	0.173	0.124	0.170	0.130	0.092	---	---	0.366	1964
1965	---	---	0	6.69	0.963	0.769	0.236	0.088	0.104	0.119	---	---	1.10	1965
1966	---	---	0.006	4.43	2.64	0.297	0.245	0.067	0.047	0.095	---	---	0.972	1966
1967	---	---	0	6.70	0.994	0.118	0.058	0.023	0.021	0.018	---	---	0.976	1967
1968	---	---	0.540	1.25	0.159	0.172	0.229	0.937	0.352	0.240	---	---	0.484	1968
1969	---	---	0.040	7.36	1.94	0.619	0.314	0.200	0.085	0.103	---	---	1.32	1969
1970	---	---	0.010	6.87	1.91	0.572	0.299	0.070	0.090	0.080	---	---	1.22	1970
1971	---	---	0.013	7.08	0.296	0.229	0.440	0.046	0.063	0.216	---	---	1.03	1971
1972	---	---	0.016	5.61	0.206	0.057	0.061	0.037	0.042	0.042	---	---	0.745	1972
1973	---	---	0.651	0.078	0.023	0.471	0.122	0.096	0.206	0.335	---	---	0.248	1973
1974	---	---	0.014	22.5	13.8	2.34	0.793	0.164	0.105	0.090	---	---	4.93	1974
1975	---	---	0.003	2.36	0.238	0.060	0.028	0.031	0.025	0.050	---	---	0.344	1975
1976	---	---	0	9.26	1.22	0.168	0.039	0.012	0.030	0.033	---	---	1.32	1976
1977	---	---	0.011	0.272	0.028	0.157	0.053	0.039	0.471	0.179	---	---	0.149	1977
1978	---	---	0	11.5	1.13	0.347	0.580	0.015	0.005	0.054	---	---	1.68	1978
1979	---	---	0	13.7	7.06	2.70	0.384	0.076	0.077	0.062	---	---	2.97	1979
1980	---	---	0	1.36	0.221	0.060	0.012	0.053	0.051	0.150	---	---	0.236	1980
1981	---	---	0.144	0.117	0.027	0.013	0.063	0.012	0.055	0.397	---	---	0.104	1981
1982	---	---	1.24	3.94	0.345	0.154	0.070	0.136	0.064	0.232	---	---	0.764	1982
MEAN	---	---	0.242	5.95	1.64	0.694	0.228	0.207	0.113	0.129	---	---	1.14	MEAN

LOCATION - LAT 50 19 38 N DRAINAGE AREA, 598 km²
LONG 97 02 39 W NATURAL FLOW

NETLEY CREEK NEAR PETERSFIELD - STATION NO. 05OJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	41.3 ON APR 15	0 B ON MAR 1 *	26 200	1960
1961	---	5.30 ON APR 21	0 B ON MAR 1	7 080	1961
1962	---	25.0 B ON APR 21	0 B ON MAR 1	17 600	1962
1963	---	37.4 ON APR 9	0 ON SEP 8	58 500	1963
1964	---	9.63 B ON APR 15	0.008B ON MAR 1	7 750	1964
1965	---	31.4 ON APR 15	0 B ON MAR 1	23 300	1965
1966	---	12.5 ON MAY 5	0 B ON MAR 1	20 600	1966
1967	---	21.0 ON APR 15	0 B ON MAR 1	20 700	1967
1968	---	7.59 ON AUG 25	0 B ON MAR 1	10 200	1968
1969	---	32.6 B ON APR 13	0.040B ON MAR 1	27 900	1969
1970	---	25.5 B ON APR 25	0.010B ON MAR 1	25 900	1970
1971	---	28.6 ON APR 19	0.011 ON AUG 28	21 900	1971
1972	---	23.2 ON APR 18	0.016B ON MAR 1	15 700	1972
1973	---	3.48 B ON MAR 23	0.018 ON JUN 12	5 240	1973
1974	---	71.6 ON APR 21 *	0.014B ON MAR 1	104 000	1974
1975	---	6.94 ON APR 21	0 ON JUL 15	7 280	1975
1976	---	36.5 ON APR 10	0 B ON MAR 1	28 000	1976
1977	---	2.82 ON SEP 26	0 B ON MAR 1	3 160	1977
1978	---	36.0 ON APR 16	0 B ON MAR 1	35 600	1978
1979	---	62.4 ON APR 23	0 B ON MAR 1	62 900	1979
1980	---	4.91 B ON APR 10	0 B ON MAR 1	4 980	1980
1981	0.845 AT 03:04 CST ON OCT 14	0.795 ON OCT 14	0 B ON MAR 1	2 200	1981
1982	12.0 AT 03:12 CST ON APR 15 *	11.7 B ON MAR 30	0 B ON MAR 1	16 200	1982
MEAN				24 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 06GB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	---	---	266	209	163	---	1972
1973	95.2	66.2	56.1	43.2	79.6	143	126	87.4	63.9	55.1	52.1	82.3	75.9	1973
1974	39.1	36.9	31.0	24.6	---	---	101	173	194	156	112	87.7	---	1974
1975	63.9	45.5	37.3	41.7	115	196	208	154	107	86.9	77.7	70.5	101	1975
1976	63.9	49.8	41.0	39.8	---	---	230	136	103	139	135	100	---	1976
1977	79.7	63.8	51.0	56.1	179	278	248	209	219	172	125	89.7	155	1977
1978	66.2	49.7	36.6	28.9	80.4	255	279	274	380	297	195	123	169	1978
1979	80.8	57.9	42.9	34.9	39.3	213	195	123	82.7	70.1	66.6	55.8	88.6	1979
1980	80.4	33.6	29.6	35.0	79.7	127	131	172	381	278	180 R	115 R	134 R	1980
1981	72.2	52.0	41.1	36.3	70.6	200	199	156	123	105	88.9	66.7	101	1981
1982	48.4	38.4	32.1	27.6	83.1	214	215	130	103	111	110	76.0	99.3	1982
MEAN	65.0	49.4	39.9	36.8	85.8	203	193	169	176	158	123 R	90.0R	115	MEAN

LOCATION - LAT 58 50 40 N DRAINAGE AREA, 17 800 km²
LONG 98 17 20 W NATURAL FLOW

R - REVISED SINCE JAN 1980

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 06GB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	---	149 ON JUN 13	39.6B ON DEC 26	2 390 000	1973
1974	203 AT 14:00 CST ON SEP 8	200 ON SEP 8	---	---	1974
1975	225 AT 17:00 CST ON JUL 2	222 ON JUL 2	36.0B ON MAR 26	3 130 000	1975
1976	283 AT 11:35 CST ON JUN 21	281 ON JUN 21	---	---	1976
1977	317 AT 10:30 CST ON AUG 11	314 ON AUG 11	45.3B ON APR 6	4 880 000	1977
1978	408 AT 17:16 CST ON SEP 11	405 ON SEP 11	27.8B ON APR 29	5 330 000	1978
1979	251 AT 18:40 CST ON JUN 18	247 ON JUN 18	32.6B ON MAY 2	2 790 000	1979
1980	424 AT 16:57 CST ON SEP 18 *	422 ON SEP 18 *	27.8B ON APR 8	4 230 000R	1980
1981	215 AT 14:56 CST ON JUL 5	214 ON JUL 9	35.6B ON APR 30	3 190 000	1981
1982	252 AT 15:45 CST ON JUL 1	252 ON JUL 3	26.1B ON APR 25 *	3 130 000	1982
				3 640 000R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

OAK CREEK NEAR STOCKTON - STATION NO. 05MG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.617	1.53	1.17	0.288	0.014	0	0	0	---	---	---	1961
1962	---	---	0	3.73	0.745	1.63	0.158	0.378	0.042	0.005	---	---	---	1962
1963	---	---	0.829	0.868	0.698	0.307	0.126	0.130	0.079	0.011	---	---	---	1963
1964	---	---	0	0.991	0.917	0.186	0.056	0.012	0.010	0.009	---	---	---	1964
1965	---	---	0	3.73	1.83	0.578	0.697	0.076	0.115	0.113	---	---	---	1965
1966	---	---	2.75	2.90	1.37	0.416	0.344	0.076	0.031	0.018	---	---	---	1966
1967	---	---	0.031	0.779	0.937	0.310	0.059	0.004	0.006	0.008	---	---	---	1967
1968	---	---	0.290	0.151	0.061	0.010	0.044	0.207	0.365	0.312	---	---	---	1968
1969	---	---	0	10.4	2.69	0.358	0.455	0.307	0.260	0.193	---	---	---	1969
1970	---	---	0.005	4.63	7.91	1.91	0.755	0.407	0.173	0.060	---	---	---	1970
1971	---	---	0	1.93	1.81	1.10	0.785	0.219	0.075	0.074	---	---	---	1971
1972	---	---	2.02	3.05	1.25	0.447	0.198	0.198	0.219	0.234	---	---	---	1972
1973	---	---	0.039	0.074	0.140	0.104	0.160	0.141	0.046	0.031	0.016	0.004	---	1973
1974	0.001	0	0	14.7	8.72	2.33	0.461	0.269	0.131	0.039	0.042	0.019	2.22	1974
1975	0.017	0.016	0.013	1.95	2.31	0.609	0.125	0.123	0.225	0.189	0.075	0.019	0.474	1975
1976	0.015	0.015	0.010	18.8	3.84	0.438	0.039	0.010	0.008	0.014	0.016	0.014	1.91	1976
1977	0.005	0.003	0.003	0.016	0.021	0.001	0.008	0.002	0.008	0.005	0.007	0.003	0.007	1977
1978	0.006	0.005	0.156	2.59	0.495	0.107	0.085	0.012	0	0.001	0.001	0.002	0.287	1978
1979	0.002	0.002	0.002	3.83	5.67	0.957	0.324	0.147	0.036	0.022	0.018	0.015	0.923	1979
1980	0.011	0.013	0.006	0.252	0.012	0.004	0.013	0.118	0.001	0.004	0.007	0.002	0.037	1980
1981	0.001	0.257	0.028	0.003	0.003	0.004	0.001	0.645	0.280	0.019	0.022	0.014	0.106	1981
1982	0.005	0.004	0.885	2.30	0.801	0.188	0.234	0.035	0	0.002	0.005	0.007	0.372	1982
MEAN	0.007	0.035	0.349	3.60	1.97	0.558	0.234	0.160	0.096	0.062	0.021	0.010	0.704	MEAN

LOCATION - LAT 49 33 44 N DRAINAGE AREA, 1 060 km^2
LONG 99 30 49 W NATURAL FLOW

OAK CREEK NEAR STOCKTON - STATION NO. 05MG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.64 B ON MAR 26	0 B ON MAR 1 *	---	1961
1962	---	26.9 ON APR 17	0 B ON MAR 1	---	1962
1963	---	7.42 B ON MAR 23	0 B ON MAR 1	---	1963
1964	---	2.75 B ON APR 6	0 B ON MAR 1	---	1964
1965	---	23.6 B ON APR 11	0 B ON MAR 1	---	1965
1966	---	13.8 B ON MAR 17	0 B ON MAR 1	---	1966
1967	---	1.47 ON APR 27	0 B ON MAR 1	---	1967
1968	---	1.29 ON AUG 25	0 ON AUG 10	---	1968
1969	---	37.9 ON APR 11	0 B ON MAR 1	---	1969
1970	---	15.7 ON APR 25	0 B ON MAR 1	---	1970
1971	---	6.06 B ON APR 8	0 B ON MAR 1	---	1971
1972	---	12.0 B ON MAR 16	0 B ON MAR 1	---	1972
1973	1.27 AT 00:29 CST ON JUL 26	0.926 ON JUL 26	0 B ON MAR 1	---	1973
1974	58.6 B AT 18:17 CST ON APR 18 *	43.0 B ON APR 18 *	0 B ON JAN 15	70 000	1974
1975	8.13 AT 02:49 CST ON APR 29	7.65 ON APR 29	0.010B ON DEC 29	14 900	1975
1976	---	40.5 ON APR 6	0.002B ON APR 1	60 500	1976
1977	0.804 AT 14:59 CST ON NOV 16	0.144 ON MAY 6	0 ON MAY 31	218	1977
1978	10.5 B AT 05:43 CST ON APR 6	9.63 B ON APR 6	0 ON SEP 3	9 050	1978
1979	29.8 B AT 16:56 CST ON APR 21	21.7 B ON APR 21	0.002B ON JAN 1	29 100	1979
1980	4.02 AT 03:27 CST ON AUG 21	2.38 ON AUG 21	0 ON MAY 28	1 160	1980
1981	11.1 AT 06:59 CST ON AUG 31	7.86 ON AUG 31	0 B ON JAN 25	3 330	1981
1982	17.8 B AT 15:44 CST ON MAR 30	13.7 B ON MAR 30	0 ON SEP 2	11 700	1982
				22 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	0.192	0.046	0.018	0	0	0	0	---	---	---	1965
1966	---	---	0.006	0.169	0.342	0.031	0.006	0	0	0	---	---	---	1966
1967	---	---	0	1.97	1.05	0.074	0.006	0	0	0	---	---	---	1967
1968	---	---	0.134	0.089	0.002	0	0	0	0	0	---	---	---	1968
1969	0	0	0	0.806	0.212	0.022	0.029	0.002	0	0.001	0	0	0.089	1969
1970	0	0	0	0.338	0.454	0.096	0.037	0.001	0.011	0.006	0.005	0.002	0.080	1970
1971	0	0	0	0.280	0.224	0.325	0.250	0.054	0.003	0.030	0.008	0	0.098	1971
1972	0	0	0.001	1.20	1.15	0.337	0.032	0.001	0	0	0	0	0.226	1972
1973	0	0	0.016	0.002	0.001	0.002	0	0	0	0	0	0	0.002	1973
1974	0	0	0	1.18	0.926	0.321	0.131	0.003	0	0	0	0	0.213	1974
1975	0	0	0	0.414	0.708	0.280	0.164	0.134	0.292	0.349	0.226	0.084	0.222	1975
1976	0.032	0.011	0.002	3.97	1.53	0.333	0.289	0.081	0.010	0.004	0.001	0	0.519	1976
1977	0	0	0.005	0.023	0.010	0	0	0	0	0	0	0	0.003	1977
1978	0	0	0.001	0.190	0.021	0.005	0	0	0	0	0	0	0.018	1978
1979	0	0	0	1.19	1.74	0.575	0.216	0.150	0	0	0	0	0.324	1979
1980	0	0	0	0.029	0	0	0	0	0.001	0.001	0.001	0	0.003	1980
1981	0	0	0.005	0.008	0.010	0.008	0.001	0	0	0	0	0	0.003	1981
1982	0	0	0	0.054	0	0	0.223	0.023	0	0	0.001	0	0.025	1982
MEAN	0.002	0.001	0.009	0.672	0.468	0.135	0.077	0.025	0.018	0.022	0.017	0.006	0.130	MEAN

LOCATION - LAT 50 26 33 N DRAINAGE AREA, 370 km²
LONG 100 35 16 W NATURAL FLOW

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	0.779B ON APR 14	0B ON MAR 1 *	---	1965
1966	---	1.04 ON MAY 3	0B ON MAR 1	---	1966
1967	---	6.51 ON APR 25	0B ON MAR 1	---	1967
1968	---	1.37 B ON MAR 28	0B ON MAR 1	---	1968
1969	3.03 B AT 21:15 CST ON APR 10	2.68 ON APR 11	0B ON JAN 1	2 800	1969
1970	1.38 AT 02:57 CST ON APR 30	1.26 ON APR 30	0B ON JAN 1	2 510	1970
1971	1.23 AT 06:37 CST ON JUN 10	1.06 ON JUN 10	0B ON JAN 1	3 090	1971
1972	3.40 AT 01:43 CST ON APR 17	3.26 ON APR 17	0B ON JAN 1	7 150	1972
1973	---	0.099B ON MAR 19	0B ON JAN 1	55.5	1973
1974	---	4.28 B ON APR 21	0B ON JAN 1	6 720	1974
1975	2.02 AT 08:11 CST ON MAY 1	1.97 ON MAY 1	0B ON JAN 1	7 000	1975
1976	8.67 AT 17:51 CST ON APR 18 *	7.79 ON APR 14 *	0B ON MAR 30	16 400	1976
1977	0.153 AT 03:31 CST ON APR 8	0.068 ON APR 8	0B ON JAN 1	103	1977
1978	---	0.408B ON APR 7	0B ON JAN 1	563	1978
1979	4.23 AT 00:00 CST ON APR 25	4.14 B ON APR 24	0B ON JAN 1	10 200	1979
1980	---	0.310B ON APR 9	0B ON JAN 1	79.7	1980
1981	---	0.014 ON JUN 26	0B ON JAN 1	82.2	1981
1982	---	0.586 ON JUL 29	0B ON JAN 1	802	1982
				4 110	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR BRADWARDINE - STATION NO. 05MG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	1.50	2.30	1.19	0.094	0.015	0.014	0.014	0.018	---	---	---	1966
1967	---	---	0	8.01	2.81	0.492	0.006	0.002	0	0.007	---	---	---	1967
1968	---	---	2.48	0.895	0.037	0	0	0	0	0	---	---	---	1968
1969	0	0	0	16.4	1.14	0.250	0.922	0.339	0.046	0.102	0.203	0.030	1.60	1969
1970	0.004	0.003	0.003	6.69	3.37	0.504	0.172	0.028	0.007	0.022	0.043	0.003	0.902	1970
1971	0	0	0.015	1.77	0.310	3.84	1.73	0.303	0.063	0.159	0.084	0.014	0.688	1971
1972	0.001	0.001	1.71	6.19	2.65	0.896	0.126	0.016	0.001	0.004	0.003	0	0.964	1972
1973	0	0	0.346	0.054	0.048	0.051	0.008	0.002	0	0.035	0.011	0.002	0.047	1973
1974	0	0	0	9.63	2.54	0.595	0.011	0.008	0.024	0.015	0.012	0.003	1.06	1974
1975	0.002	0.006	0.007	7.78	3.67	0.951	0.200	0.203	0.398	0.321	0.305	0.091	1.16	1975
1976	0.057	0.047	0.052	21.3	3.95	1.26	0.400	0.047	0.016	0.009	0.009	0.001	2.24	1976
1977	0.003	0.004	0.041	0.098	0.114	0.050	0.085	0.003	0.008	0.008	0.012	0.003	0.033	1977
1978	0.003	0.003	0.665	2.14	0.240	0.034	0.008	0.006	0	0.002	0.003	0.003	0.258	1978
1979	0.003	0.003	0.003	8.19	3.25	0.879	0.214	0.018	0.001	0.001	0.001	0.001	1.04	1979
1980	0.001	0.001	0.002	0.433	0.007	0.001	0	0.001	0	0.002	0.002	0.001	0.037	1980
1981	0.001	0.012	0.138	0.032	0.004	0.007	0.006	0.006	0.012	0.001	0.001	0.002	0.019	1981
1982	0	0	0.366	2.61	0.134	0.010	0.004	0	0	0.006	0.002	0	0.258	1982
MEAN	0.005	0.006	0.431	5.56	1.50	0.583	0.227	0.059	0.035	0.042	0.049	0.011	0.736	MEAN

LOCATION - LAT 49 55 30 N DRAINAGE AREA, 1 840 km²
LONG 100 27 46 W REGULATED

OAK RIVER NEAR BRADWARDINE - STATION NO. 05MG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	10.2 ON APR 1	0 B ON MAR 1 *	---	1966
1967	19.0 AT 14:00 CST ON APR 15	18.4 ON APR 15	0 B ON MAR 1	---	1967
1968	---	12.8 B ON MAR 28	0 B ON MAR 1	---	1968
1969	---	87.5 B ON APR 12 *	0 B ON JAN 1	50 600	1969
1970	---	16.5 B ON APR 12	0 B ON DEC 20	28 400	1970
1971	27.5 AT 16:00 CST ON JUN 15	22.9 ON JUN 15	0 B ON JAN 1	21 700	1971
1972	---	15.7 ON APR 16	0 ON AUG 31	30 500	1972
1973	---	1.13 B ON MAR 13	0 B ON JAN 1	1 480	1973
1974	---	39.6 B ON APR 18	0 B ON JAN 11	33 500	1974
1975	---	34.5 A ON APR 29	0.001B ON JAN 1	36 500	1975
1976	46.7 AT 19:22 CST ON APR 10 *	45.3 ON APR 10	0.001B ON NOV 30	70 700	1976
1977	0.657 AT 10:00 CST ON MAY 28	0.348 ON MAY 23	0 ON AUG 17	1 030	1977
1978	10.3 AT 03:28 CST ON APR 7	7.70 ON APR 7	0 ON JUL 14	8 130	1978
1979	31.6 AT 05:40 CST ON APR 22	30.8 ON APR 21	0 ON AUG 25	32 900	1979
1980	---	1.89 B ON APR 7	0 ON JUN 10	1 170	1980
1981	0.425 AT 11:33 CST ON JUL 7	0.286B ON MAR 21	0 B ON FEB 7	587	1981
1982	11.7 B AT 03:44 CST ON APR 13	10.4 B ON APR 13	0 B ON JAN 1	8 150	1982
				23 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.063	0.140	0.023	0.004	0	0	0	---	---	---	1969
1970	---	---	0	0.062	0.854	0.909	0.100	0.023	0.025	0.024	---	---	---	1970
1971	---	---	0	0.020	0.063	0.126	0.703	0.375	0.086	0.023	---	---	---	1971
1972	0	0	0	0.512	2.14	0.819	0.143	0.029	0	0	0	0	0.305	1972
1973	0	0	0.001	0.014	0.001	0	0	0	0	0	0	0	0.001	1973
1974	0	0	0	0.041	0.555	0.470	0.065	0.011	0	0	0	0	0.096	1974
1975	0	0	0	0.038	0.432	0.548	0.121	0.064	0.108	0.201	0.254	0.152	0.160	1975
1976	0.082	0.064	0.062	3.42	2.03	0.791	0.274	0.136	0.055	0.035	0.006	0	0.577	1976
MEAN	0.016	0.013	0.008	0.521	0.777	0.461	0.176	0.080	0.034	0.035	0.052	0.030	0.228	MEAN

LOCATION - LAT 50 19 35 N DRAINAGE AREA, 443 km^2
LONG 100 36 00 W REGULATED

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	0.280 ON APR 15	0B ON MAR 1 *	---	1969
1970	---	1.10 ON MAY 15	0B ON MAR 1	---	1970
1971	---	0.867 ON JUL 19	0B ON MAR 1	---	1971
1972	---	2.45 ON MAY 5	0B ON JAN 1	9 650	1972
1973	---	0.026 ON APR 14	0B ON JAN 1	44.3	1973
1974	---	0.838 ON MAY 23	0B ON JAN 1	3 020	1974
1975	---	0.742 ON MAY 26	0B ON JAN 1	5 060	1975
1976	---	7.42 ON APR 24 *	0B ON NOV 22	18 200	1976
				7 190	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR RIVERS - STATION NO. 05NG004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.207	0.029	0	0	0	0	0	0	---	---	---	1959
1960	---	---	0	3.39	0.334	0.094	0	0	0	0	---	---	---	1960
1961	---	---	0	0.117	0.009	0	0	0	0	0	---	---	---	1961
1962	---	---	0	1.01	0.029	0	0	0.007	0.002	0	---	---	---	1962
1963	---	---	0.918	0.475	0.023	0.005	0.106	0	0	0	---	---	---	1963
1964	---	---	0	1.56	0.287	0.006	0	0	0.004	0.001	---	---	---	1964
1965	---	---	0	3.39	0.072	0.036	0.112	0.003	0.008	0.007	---	---	---	1965
1966	---	---	0.835	0.855	0.376	0.006	0	0	0	0	---	---	---	1966
1967	---	---	0	4.84	1.21	0.088	0	0	0	0	---	---	---	1967
1968	---	---	0.833	0.466	0.009	0.001	0	0.001	0	0	---	---	---	1968
1969	0	0	0	7.40	0.321	0.043	0.298	0.029	0.005	0.006	0.004	0	0.660	1969
1970	0	0	0	2.61	2.06	0.392	0.263	0.024	0.019	0.064	0.058	0	0.457	1970
1971	0	0	0.002	0.570	0.163	2.41	1.20	0.288	0.089	0.095	0.026	0.003	0.403	1971
1972	0	0	0.210	3.28	2.12	0.795	0.100	0.007	0	0	0	0	0.541	1972
1973	0	0	0.093	0.011	0.012	0.004	0	0	0	0	0	0	0.010	1973
1974	0	0	0	4.76	1.27	0.443	0.031	0	0	0	0	0	0.538	1974
1975	0	0	0	2.28	1.31	0.462	0.181	0.204	0.181	0.171	0.205	0.053	0.413	1975
1976	0.028	0.023	0.029	9.09	2.82	0.840	0.246	0.041	0.008	0	0	0	1.08	1976
1977	0	0	0.013	0.025	0.052	0.015	0.007	0	0.001	0.001	0.001	0.001	0.010	1977
1978	0.001	0.001	0.054	0.763	0.044	0.001	0	0	0	0	0	0	0.071	1978
1979	0	0	0	4.83	1.45	0.774	0.281	0.054	0.002	0.001	0	0	0.613	1979
1980	0	0	0	0.144	0.007	0.003	0	0	0	0	0	0	0.013	1980
1981	0	0.001	0.079	0.022	0	0.004	0.001	0	0	0	0	0	0.009	1981
1982	0	0	0.036	0.904	0.044	0.001	0	0	0	0	0	0	0.081	1982
MEAN	0.002	0.002	0.138	2.20	0.584	0.304	0.114	0.027	0.013	0.014	0.021	0.004	0.351	MEAN

LOCATION - LAT 50 01 30 N DRAINAGE AREA, 1 160 km²
LONG 100 23 35 W REGULATED

OAK RIVER NEAR RIVERS - STATION NO. 05NG004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.04 ON MAR 28	0B ON MAR 1 *	---	1959
1960	---	13.3 ON APR 13	0B ON MAR 1	---	1960
1961	---	0.595 ON APR 10	0B ON MAR 1	---	1961
1962	---	5.92 ON APR 19	0B ON MAR 1	---	1962
1963	---	6.71 ON JUN 10	0B ON MAR 1	---	1963
1964	---	5.07 ON APR 15	0B ON MAR 1	---	1964
1965	---	12.7 ON APR 16	0B ON MAR 1	---	1965
1966	---	4.64 B ON APR 2	0B ON MAR 1	---	1966
1967	12.7 AT 19:00 CST ON APR 14	11.8 ON APR 14	0B ON MAR 1	---	1967
1968	---	7.93 B ON MAR 27	0B ON MAR 1	---	1968
1969	---	35.1 A ON APR 12 *	0B ON JAN 1	21 100	1969
1970	9.09 AT 06:51 CST ON APR 29	8.01 ON APR 30	0B ON JAN 1	14 800	1970
1971	7.59 AT 13:15 CST ON JUN 15	6.37 ON JUN 15	0B ON JAN 1	12 700	1971
1972	12.1 AT 15:20 CST ON APR 15	10.3 ON APR 16	0B ON JAN 14	17 100	1972
1973	---	0.275B ON MAR 13	0B ON JAN 1	320	1973
1974	---	19.3 ON APR 18	0B ON JAN 1	16 900	1974
1975	12.2 AT 01:00 CST ON APR 29	10.3 ON APR 29	0B ON JAN 1	13 000	1975
1976	---	23.4 B ON APR 10	0 ON SEP 17	34 300	1976
1977	0.515 AT 08:31 CST ON MAY 21	0.340 ON MAY 21	0B ON JAN 1	310	1977
1978	4.02 B AT 20:20 CST ON APR 6	3.09 B ON APR 6	0B ON FEB 25	2 250	1978
1979	41.0 AT 11:58 CST ON APR 21 *	33.7 ON APR 21	0B ON JAN 1	19 300	1979
1980	---	0.587B ON APR 7	0B ON JAN 1	400	1980
1981	0.554 AT 11:07 CST ON MAR 19	0.299 ON MAR 19	0B ON JAN 1	281	1981
1982	4.37 AT 15:24 CST ON APR 14	2.84 ON APR 14	0B ON JAN 1	2 560	1982
MEAN				11 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	4.40	3.82	2.69	---	1912
1913	2.18	0.906	0.057	9.51	3.00	2.34	3.08	0.477	0.205	0.387	0.390	0.142	2.36	1913
1914	0.057	0	0.028	4.25	6.49	0.498	0.397	0.049	0.097	0.248	0.163	0.030	1.50	1914
1915	0	0	0.057	1.96	1.27	1.26	1.11	0.239	0.622	1.03	0.635	0.113	0.939	1915
1916	---	---	---	3.66	3.89	9.97	2.06	0.308	0.175	0.600	0.650	---	---	1916
1917	---	---	---	1.14	4.73	4.07	2.17	0.313R	0.257	0.309	0.483	---	---	1917
1918	---	---	1.56	3.10	3.35	1.54	0.718	0.533	0.183	0.388	0.679	---	1.42	1918
1919	---	---	---	---	1.92	0.343	0.626	0.087	0.222	0.397	---	---	---	1919
1920	---	---	---	---	8.32	1.41	0.382	0.097	0.145	0.278	---	---	---	1920
1921	---	---	---	---	6.77	1.61	---	---	---	---	---	---	---	1921
1922	---	---	---	10.2	6.44	1.62	1.25	1.05	0.425	---	---	---	---	1922
1923	---	---	---	---	10.1	7.35	1.73	0.507	0.173	0.427	---	---	---	1923
1924	---	---	---	---	5.83	3.33	1.61	0.641	0.215	1.82	---	---	---	1924
1925	---	---	---	7.81	2.90	16.6	3.57	2.33	1.71	2.38	---	---	---	1925
1926	---	---	---	---	1.70	1.21	0.467	0.217	0.842	2.75	---	---	---	1926
1927	---	---	---	---	13.0	4.32	3.79	2.06	0.796	0.960	---	---	---	1927
1928	---	---	---	---	2.59	8.34	2.02	0.601	0.230	0.333	---	---	---	1928
1929	---	---	---	---	2.07	1.77	0.436	0.098	0.094	0.174	---	---	---	1929
1930	---	---	---	---	3.57	0.999	0.475	0.076	0.076	---	---	---	---	1930
1948	---	---	---	---	7.26	0.960	2.83	1.46	0.388	0.294	---	---	---	1948
1949	---	---	---	---	2.17	2.42	3.92	0.707	0.249	0.717	---	---	---	1949
1950	---	---	---	2.40	14.8	4.88	4.10	0.800	0.597	0.732	---	---	---	1950
1951	---	---	---	6.82	4.94	1.67	0.656	0.554	0.968	1.60	---	---	---	1951
1952	---	---	0.031	6.82	1.76	0.752	0.337	0.200	1.77	0.720	0.361	---	1.53	1952
1953	---	---	---	3.83	11.7	14.4	4.07	1.57	1.42	1.22	0.869	---	---	1953
1954	---	---	---	2.72	5.95	8.59	3.51	0.714	4.31	2.95	1.10	---	---	1954
1955	---	---	---	8.76	7.90	10.4	1.62	0.149	0.198	0.275	---	---	---	1955
1956	---	---	0.375	2.25	7.93	8.37	5.92	0.562	0.477	0.621	---	---	3.31	1956
1957	---	---	0.471	10.2	4.37	3.34	0.723	0.449	0.632	0.382	---	---	2.55	1957
1958	---	---	0.352	3.36	1.36	0.591	1.27	0.138	0.688	0.325	---	---	1.00	1958
1959	---	---	0.423	3.54	5.22	1.90	0.850	0.107	0.448	1.40	---	---	1.73	1959
1960	---	---	0.159	8.23	9.82	1.74	0.318	0.273	0.143	0.379	---	---	2.62	1960
1961	---	---	0.024	1.12	1.54	0.041	0.021	0	0.009	0.386	---	---	0.393	1961
1962	---	---	0.032	1.17	1.70	1.40	0.205	0.181	0.325	0.362	0.311	---	0.669	1962
1963	---	---	0.828	6.85	3.69	4.00	1.18	0.137	0.710	0.249	---	---	2.19	1963
1964	---	---	0	4.61	3.14	0.368	0.095	0.033	0.014	0.187	---	---	1.05	1964
1965	---	---	0	2.67	7.31	3.96	1.17	0.778	5.18	1.39	---	---	2.79	1965
1966	---	---	1.82	5.90	9.77	2.01	1.28	1.07	0.353	0.390	---	---	2.82	1966
1967	---	---	0.235	3.48	10.3	1.15	0.232	0.173	0.020	0.254	---	---	1.99	1967
1968	---	---	0.401	2.39	2.11	1.10	2.31	2.26	1.13	0.797	---	---	1.56	1968
1969	---	---	0.261	5.04	2.21	9.60	5.19	0.413	0.512	0.754	---	---	2.97	1969
1970	---	---	0.224	2.87	18.6	2.56	1.65	0.211	0.641	0.896	---	---	3.47	1970
1971	---	---	0.187	7.32	1.95	12.0	2.14	0.631	0.254	1.59	---	---	3.21	1971
1972	---	---	0.520	7.34	4.28	0.631	0.225	0.207	0.136	0.198	---	---	1.68	1972
1973	---	---	0.513	0.822	0.817	2.04	0.355	0.875	1.48	1.59	---	---	1.06	1973
1974	---	---	0.014	10.2	15.1	2.30	0.596	0.284	0.616	1.35	---	---	3.80	1974
1975	---	---	0.212	2.98	4.75	4.19	0.994	4.32	19.9	4.19	---	---	5.15	1975
1976	---	---	0.616	13.0	2.42	8.61	0.885	0.255	0.105	0.300	---	---	3.23	1976
1977	---	---	0.285	1.13	1.26	0.599	3.75	0.742	3.44	1.86	---	---	1.63	1977
1978	---	---	0.488	5.82	2.33	1.24	0.644	0.189	0.689	0.917	---	---	1.53	1978
1979	---	---	0.400	5.97	14.2	2.88	0.503	0.228	0.293	0.398	---	---	3.11	1979
1980	---	---	0.227	3.08	0.555	0.197	0.306	1.14	1.03	1.04	---	---	0.940	1980
1981	---	---	0.405	2.33	2.67	2.62	0.304	0.379	0.354	0.676	---	---	1.21	1981
1982	---	---	0.038	5.51	2.18	0.705	0.301	0.210	0.177	1.51	---	---	1.32	1982
MEAN	0.746	0.302	0.351	4.93	5.40	3.64	1.55	0.617R	1.08	0.976	0.860	0.744	2.09	MEAN

LOCATION - LAT 51 03 55 N DRAINAGE AREA, 344 km²
LONG 99 46 44 W NATURAL FLOW

R - REVISED SINCE JAN 1980

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	25.6 ON APR 14	0.057B ON MAR 1	50 100	1913
1914	---	30.9 ON MAY 6	0.028B ON MAR 1	31 900	1914
1915	---	5.01 ON APR 12	0.057B ON MAR 1	19 900	1915
1916	---	4[illegible].7 ON JUN 24	---	---	1916
1917	---	15.2 ON JUN 26	---	---	1917
1918	---	15.4 ON MAY 25	0.130 ON AUG 31	30 100	1918
1919	---	---	---	---	1919
1920	---	---	---	---	1920
1921	---	---	---	---	1921
1922	---	22.4 ON MAY 18	---	---	1922
1923	---	56.1 ON MAY 2	---	---	1923
1924	---	14.3 ON APR 28	---	---	1924
1925	---	51.3 ON JUN 24	---	---	1925
1926	---	---	---	---	1926
1927	---	54.4 ON MAY 4	---	---	1927
1928	---	44.5 ON JUN 21	---	---	1928
1929	---	---	0.071 ON AUG 27	---	1929
1930	---	17.3 ON MAY 13	---	---	1930
1948	---	44.2 ON APR 25	---	---	1948
1949	---	28.0 ON JUL 22	---	---	1949
1950	---	68.0 ON MAY 14	---	---	1950
1951	---	37.9 ON APR 29	0 B ON APR 1 *	---	1951
1952	---	17.3 ON APR 18	0.028B ON MAR 1	32 400	1952
1953	---	91.7 ON JUN 4	---	---	1953
1954	---	37.4 ON JUN 8	---	---	1954
1955	---	67.4 ON JUN 18	0 ON SEP 3	---	1955
1956	---	40.2 ON JUN 20	0.198 ON AUG 26	70 100	1956
1957	---	57.8 ON APR 25	0.170 ON AUG 21	53 800	1957
1958	---	6.88B ON APR 1	0 ON AUG 12	21 300	1958
1959	---	13.2 ON MAY 4	0.028 ON AUG 6	36 700	1959
1960	---	32.8 ON MAY 27	0.040 ON JUL 28	55 500	1960
1961	---	4.64B ON APR 21	0 B ON MAR 1	8 310	1961
1962	---	5.64 ON MAY 31	0 B ON MAR 1	14 200	1962
1963	---	20.7 ON APR 8	0 B ON MAR 1	46 300	1963
1964	---	17.5 ON APR 26	0 B ON MAR 1	22 200	1964
1965	---	24.1 ON JUN 3	0 B ON MAR 1	59 200	1965
1966	---	34.0 ON MAY 5	0.003 ON SEP 17	59 800	1966
1967	---	18.0 ON MAY 7	0.011 ON SEP 7	42 100	1967
1968	---	12.0 ON JUL 2	0.085B ON MAR 1	33 100	1968
1969	---	74.2 ON JUN 27	0.108 ON SEP 19	63 000	1969
1970	---	63.1 ON MAY 8	0.085 ON AUG 24	73 500	1970
1971	---	85.2 ON JUN 10	0.119 ON SEP 25	68 000	1971
1972	---	20.9 ON APR 26	0.082 ON SEP 11	35 600	1972
1973	---	11.3 ON JUN 21	0.031 ON JUL 24	22 400	1973
1974	---	47.0 ON APR 27	0.014B ON MAR 1	80 600	1974
1975	328 AT 15:13 CST ON SEP 19 *	211 ON SEP 19 *	0.113 ON JUL 30	109 000	1975
1976	---	68.0 ON JUN 14	0.040 ON SEP 12	68 400	1976
1977	---	40.5 ON JUL 12	0.071 ON JUN 11	34 500	1977
1978	---	15.5 A ON APR 27	0.102 ON AUG 13	32 300	1978
1979	48.5 AT 13:35 CST ON MAY 17	45.3 ON MAY 17	0.138 ON AUG 31	65 800	1979
1980	8.10B AT 09:22 CST ON APR 19	7.17 ON APR 21	0.087 ON JUN 26	19 900	1980
1981	12.5 AT 14:40 CST ON JUN 18	10.0 ON JUN 18	0.066 ON JUL 14	25 600	1981
1982	---	16.6 B ON APR 15	0 B ON MAR 1	27 900	1982
				44 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	10.0	6.90	4.82	8.11	65.3	101	51.7	35.5	42.9	48.1	25.4	14.3	34.6	1979
1980	6.82	3.52	2.80	27.2	49.2	34.9	37.6	65.6	102	79.8	31.7	22.5	38.7	1980
1981	17.6	12.2	8.53	6.32	103	49.9	28.4	24.8	13.1	24.9	17.2	4.82	26.1	1981
1982	1.75	1.63	1.58	12.8	188	77.8	53.1	63.7	56.3	60.5	33.1	24.5	48.3	1982
MEAN	9.04	6.06	4.43	13.6	101	65.9	42.7	47.4	53.6	53.3	26.9	16.5	36.9	MEAN

LOCATION - LAT 55 59 45 N   DRAINAGE AREA, 6 450 km^2
LONG 97 21 23 W   NATURAL FLOW

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	135A AT 17:55 CST ON JUN 4	134A ON JUN 4	3.50E ON APR 13	1 090 000	1979
1980	143 AT 22:45 CST ON AUG 28 *	143 ON AUG 29	2.65B ON MAR 25	1 220 000	1980
1981	---	225E ON MAY 18	2.30B ON DEC 31	821 000	1981
1982	---	352E ON MAY 3 *	1.52E ON APR 12 *	1 520 000	1982
				1 160 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOL THE PERIOD OF RECORD

OMANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO. 05MJ008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.004	1.25	0.256	0.025	0.010	0	0	0	---	---	0.190	1978
MEAN	---	---	0.004	1.25	0.256	0.025	0.010	0	0	0	---	---	0.190	MEAN

LOCATION - LAT 49 54 59 N DRAINAGE AREA, 75.1 km^2
LONG 97 12 58 W NATURAL FLOW

OMANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO. 05MJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	---	4.67B ON APR 8 *	0 ON MAY 3 *	4 030	1978
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 030	MEAN

OMANDS CREEK NEAR METRO ROUTE 90 - STATION NO. 05MJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	1.37	0.340	0.023	0.004	0	0.011	0	---	---	0.219	1978
MEAN	---	---	0.027	1.37	0.340	0.023	0.004	0	0.011	0	---	---	0.219	MEAN

LOCATION - LAT 49 54 43 N DRAINAGE AREA, 80.5 km^2
LONG 97 12 20 W NATURAL FLOW

OMANDS CREEK NEAR METRO ROUTE 90 - STATION NO. 05MJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	5.89 AT 00:59 CST ON MAY 26 *	4.70 ON MAY 26 *	0B ON MAR 1 *	4 630	1978
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 630	MEAN

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	1 160	1 120	1 050	---	---	---	---	1971
1972	764	765	826	925	1 160	1 250	1 180	1 110	1 020	950	860	707	960	1972
1973	632	625	685	768	---	---	---	---	---	---	---	---	---	1973
MEAN	698	695	756	847	1 160	1 250	1 170	1 120	1 040	950	860	707	960	MEAN

LOCATION - LAT 54 25 30 N
LONG 98 03 00 W NATURAL FLOW

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	1 300 AT 05:13 CST ON JUN 13 *	1 280 ON MAY 21 *	648B ON DEC 31 *	30 300 000	1972
1973	---	---	---	---	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 300 000	MEAN

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	52.9 R	72.1 R	36.5 R	24.5 R	38.4 R	---	---	---	---	1954
1955	---	---	---	---	71.0 R	22.2 R	12.0 R	8.04 R	2.89 R	2.77 R	---	---	---	1955
1956	---	---	0.054R	11.1	74.0	57.1	30.9	17.9	9.11	6.86	---	---	25.9 R	1956
1957	---	---	0	13.7	45.2	16.7	4.75	0.813	1.70	1.19	---	---	10.5	1957
1958	---	---	0.005	21.3	13.5	4.40	6.92	1.71	3.04	9.97	---	---	7.58	1958
1959	---	---	0.57[illegible]	14.7	19.2	10.7	16.9	9.21	24.5	17.9	---	---	14.2	1959
1960	---	---	0.007	34.6	52.0	30.9	11.6	3.78	1.33	0.733	---	---	16.8	1960
1961	---	---	0.062	14.5	11.9	3.20	0.107	0.020	0.015	0.014	---	---	3.70	1961
1962	---	---	0	3.9[illegible]	13.1	5.66	0.673	0.125	0.719	0.922	---	---	3.14	1962
1963	---	---	0	7.04	4.50	4.53	6.51	1.53	2.67	1.85	---	---	3.56	1963
1964	---	---	0.094	7.99	27.4	4.21	8.01	9.40	17.6	13.2	---	---	11.0	1964
1965	---	---	0.076	17.4	39.3	55.6	25.9	9.52	13.1	17.6	---	---	22.2	1965
1966	---	---	0.318	14.5	16.3	23.2	34.5	17.0	8.22	6.87 R	---	---	15.1 R	1966
1967	---	---	0.577	0.881	52.5	27.3	5.25	1.96	1.08	3.12	---	---	11.6	1967
1968	---	---	0.697	8.29	10.1	36.2	43.5	14.5	10.5	7.79	---	---	16.4	1968
1969	---	---	0.323	25.3	17.5	6.00	0.651	0.287	0.273	11.1	---	---	7.65	1969
1970	---	---	0.128	4.86	35.7	22.6	66.9	20.1	6.01	11.3	---	---	21.1	1970
1971	---	---	0.232	30.7	24.5	6.60	2.08	2.12	0.517	4.41	---	---	8.85	1971
1972	---	---	0.093	13.0	47.8	14.0	4.22	1.50	0.544	0.917	---	---	10.3	1972
1973	---	---	0	6.60	18.5	37.3	21.1	4.56	3.98	5.82	---	---	12.2	1973
1974	---	---	0.500	21.4	70.3	42.6	7.40	2.63	5.01	10.1	---	---	19.9	1974
1975	---	---	0.713	9.75	41.8	43.4	12.3	7.46	9.15	12.3	---	---	17.1	1975
1976	---	---	0.554	8.65	5.53	21.3	25.2	9.18	3.25	1.35	---	---	9.35	1976
1977	---	---	0	4.94	7.41	3.74	3.79	15.0	19.4	13.8	---	---	8.50	1977
1978	---	---	0.716	15.3	38.9	13.7	6.40	8.35	10.7	15.0	---	---	13.6	1978
1979	---	---	0 R	17.7 R	62.3 R	51.9 R	9.15 R	2.15 R	1.64 R	2.31 R	---	---	18.3 R	1979
1980	---	---	0.005	4.85	2.50	0.410	0.770	1.14	1.36	2.91	---	---	1.74	1980
1981	---	---	0.349	6.83	9.12	2.79	2.43	2.03	0.679	15.6	---	---	4.99	1981
1982	---	---	0.024	7.85	11.6	18.8	12.6	4.46	3.08	8.08	---	---	8.30	1982
MEAN	---	---	0.226R	12.9 R	30.9 R	22.7 R	14.4 R	6.93 R	6.91 R	7.35 R	---	---	12.0	MEAN

LOCATION - LAT 53 09 15 N, LONG 101 06 30 W — DRAINAGE AREA, 3 550 km^2 — NATURAL FLOW

R - REVISED SINCE JAN 1980

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	---	---	---	1955
1956	---	88.9 ON MAY 15	0.028B ON APR 1	547 000R	1956
1957	---	55.2 ON APR 29	0 B ON MAR 1 *	222 000	1957
1958	---	36.0 ON APR 7	0 B ON MAR 1	160 000	1958
1959	---	36.0 ON JUL 1	0 B ON MAR 1	300 000	1959
1960	---	119 B ON APR 22 *	0 B ON MAR 1	355 000	1960
1961	---	27.2 ON APR 26	0.014 ON SEP 3	78 400	1961
1962	---	26.3 ON APR 29	0 B ON MAR 1	66 600	1962
1963	---	19.2 B ON APR 18	0 B ON MAR 1	75 400	1963
1964	---	56.6 ON MAY 12	0.085B ON MAR 1	233 000	1964
1965	---	90.3 ON JUN 10	0.076B ON MAR 1	470 000	1965
1966	---	47.0 ON JUL 21	0.286B ON MAR 1	320 000R	1966
1967	---	78.2 ON MAY 12	0.402B ON APR 16	246 000	1967
1968	---	55.8 ON JUN 1	0.025B ON MAR 21	348 000	1968
1969	---	53.5 B ON APR 14	0.037E ON SEP 15	162 000	1969
1970	---	90.9 ON JUL 16	0.105B ON APR 7	446 000	1970
1971	---	78.7 B ON APR 19	0.096A ON SEP 16	187 000	1971
1972	---	56.9 E ON APR 29	0.071B ON MAR 1	217 000	1972
1973	47.0 AT 02:31 CST ON JUN 22	47.0 ON JUN 22	0 B ON MAR 1	258 000	1973
1974	85.8 AT 00:11 CST ON APR 30 *	85.5 ON APR 29	0.396B ON MAR 29	422 000	1974
1975	55.2 AT 10:22 CST ON JUN 10	54.7 ON JUN 11	0.453B ON APR 6	361 000	1975
1976	---	39.9 ON JUN 29	0.544B ON MAR 1	198 000	1976
1977	24.7 AT 12:43 CST ON SEP 18	24.6 ON SEP 18	0 B ON MAR 1	180 000	1977
1978	69.1 AT 04:16 CST ON MAY 1	68.5 ON MAY 1	0.691B ON MAR 1	288 000	1978
1979	73.8R AT 19:00 CST ON APR 29	73.6 R ON APR 29	0 RB ON MAR 1	387 000R	1979
1980	---	8.91B ON APR 17	0 B ON MAR 1	36 800	1980
1981	28.7 AT 23:59 CST ON OCT 31	26.1 ON OCT 31	0 B ON MAR 1	106 000	1981
1982	27.1 AT 20:12 CST ON JUN 1	26.8 ON JUN 2	0.017B ON MAR 29	176 000	1982
MEAN				254 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

OXTAIL CREEK NEAR CYPRESS RIVER - STATION NO. 05MH012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	---	---	0	0.828	1.02	0.170	0.004	0	0	0	---	---	0.251	1975
1976	---	---	0	9.77	0.594	0.066	0.022	0	0	0	---	---	1.28	1976
1977	---	---	0	0	0.071	0.002	0	0	0	0	---	---	0.009	1977
1978	---	---	0.014	1.32	0.213	0.091	0.021	0	0	0	---	---	0.205	1978
1979	---	---	0	5.22	2.27	0.243	0.014	0	0	0	---	---	0.957	1979
1980	---	---	0	0.230	0.056	0	0	0	0	0	---	---	0.035	1980
1981	---	---	0.076	0.013	0.027	0.026	0.010	0.038	0.050	0.033	---	---	0.034	1981
1982	---	---	0.124	1.19	0.171	0.073	0.022	0.004	0	0	---	---	0.196	1982
MEAN	---	---	0.027	2.32	0.553	0.084	0.012	0.005	0.006	0.004	---	---	0.371	MEAN

LOCATION - LAT 49 28 40 N   DRAINAGE AREA, 435 km²
LONG 99 09 20 W   NATURAL FLOW

REMARKS - DAILY DISCHARGES PRIOR TO 1975 HAVE NOT BEEN PUBLISHED

OXTAIL CREEK NEAR CYPRESS RIVER - STATION NO. 05MH012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1975	---	3.40 ON MAY 3	0B ON MAR 1 *	5 320	1975
1976	---	26.0 B ON APR 8 *	0B ON MAR 1	27 100	1976
1977	---	0.258 ON MAY 21	0B ON MAR 1	197	1977
1978	---	3.99 B ON APR 7	0B ON MAR 1	4 330	1978
1979	---	26.0 ON APR 22	0B ON MAR 1	20 200	1979
1980	0.856 AT 00:00 CST ON APR 7 *	0.746B ON APR 6	0B ON MAR 1	746	1980
1981	0.390 AT 12:06 CST ON MAR 16	0.326B ON MAR 16	0B ON MAR 4	725	1981
1982	---	2.06 B ON APR 16	0B ON MAR 1	4 150	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 850	MEAN

PACKHORSE CREEK NEAR MCCREARY - STATION NO. 05LJ034

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	0.078	0.028	0.023	0.012	---	---	---	---	1960
1961	---	---	---	---	0.254	0.017	0.041	0.017	0.084	---	---	---	---	1961
1962	---	---	---	---	---	0.023	0.005	0.011	0.008	---	---	---	---	1962
1963	---	---	---	---	---	0.308	0.028	0.016	0.016	---	---	---	---	1963
1964	---	---	---	---	0.103	0.031	0.011	0.009	0.011	---	---	---	---	1964
1965	---	---	---	0.096	0.295	0.103	0.043	0.030	0.266	0.033	---	---	0.123	1965
1966	---	---	---	0.158	0.247	0.085	0.032	0.085	0.017	0.031	---	---	0.094	1966
1967	---	---	---	0.240	0.380	0.070	0.026	0.021	0.016	0.037	---	---	0.113	1967
1968	---	---	---	0.116	0.115	0.102	0.119	0.128	0.046	0.042	---	---	0.096	1968
1969	---	---	---	0.294	0.158	0.278	0.282	0.033	0.028	0.016	---	---	0.155	1969
1970	---	---	---	0.067	0.633	0.113	0.061	0.034	0.048	0.062	---	---	0.146	1970
1971	---	---	---	---	0.082	0.358	0.068	0.022	0.036	---	---	---	---	1971
1972	---	---	---	0.296	0.178	0.046	0.018	0.015	0.014	---	---	---	---	1972
1973	---	---	---	0.049	0.081	0.120	0.032	0.039	0.078	0.079	---	---	0.068	1973
1974	---	---	---	0.295	0.353	0.103	0.026	0.021	0.018	0.011	---	---	0.118	1974
1975	---	---	---	---	0.208	0.135	0.025	0.099	---	---	---	---	---	1975
MEAN	---	---	---	0.179	0.237	0.123	0.053	0.038	0.047	0.039	---	---	0.114	MEAN

LOCATION - LAT 50 43 00 N   DRAINAGE AREA, 9.07 km²   DATA CONTRIBUTED BY -
LONG 99 35 00 W   NATURAL FLOW   MANITOBA WATER RESOURCES BRANCH

PACKHORSE CREEK NEAR MCCREARY - STATION NO. 05LJ034

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	1.42 AT 14:00 CST ON MAY 26	1.30 ON MAY 26	0 ON SEP 18 *	---	1960
1961	---	---	0 ON JUN 7	---	1961
1962	5.95 AT 22:30 CST ON MAY 29	2.45 ON MAY 30	0 ON JUN 11	---	1962
1963	3.48 AT 06:20 CST ON JUN 10	1.39 ON JUN 10	---	---	1963
1964	---	---	---	---	1964
1965	1.92 AT 17:40 CST ON SEP 4	1.47 ON SEP 17	0 B ON APR 1	2 280	1965
1966	2.42 AT 03:30 CST ON AUG 7	1.30 ON AUG 7	0.011 ON SEP 22	1 740	1966
1967	1.18 AT 18:30 CST ON MAY 14	0.937 ON MAY 7	0.003B ON APR 1	2 090	1967
1968	1.53 AT 14:30 CST ON JUL 7	0.864E ON MAY 8	0.020 ON JUL 26	1 770	1968
1969	4.87 AT 03:30 CST ON JUN 27	2.77 ON JUN 27	0.011E ON OCT 28	2 860	1969
1970	3.94 AT 17:15 CST ON MAY 7	2.18 ON MAY 7	0.018 ON AUG 25	2 710	1970
1971	---	3.48 ON JUN 6	---	---	1971
1972	---	1.81 B ON APR 26	---	---	1972
1973	1.26 AT 13:00 CST ON JUN 20	0.821 ON JUN 20	0.001 ON JUL 23	1 260	1973
1974	2.57 AT 16:00 CST ON MAY 11	1.91 ON MAY 11	0.001 ON OCT 6	2 180	1974
1975	13.6 AT 18:00 CST ON SEP 18 *	8.78 ON SEP 19 *	---	---	1975
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 110	MEAN

PANSY DRAIN NEAR SARTO - STATION NO. 05OE014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0.113	0.018	0.001	---	---	---	---	---	---	0.033	1978
1979	---	---	0	0.254	0.232	0.133	---	---	---	---	---	---	0.154	1979
1980	---	---	0	0.031	0	0	---	---	---	---	---	---	0.008	1980
1981	---	---	0.001	0	0.003	0	---	---	---	---	---	---	0.001	1981
1982	---	---	0.003	0.141	0.067	0.117	---	---	---	---	---	---	0.081	1982
MEAN	---	---	0.001	0.108	0.064	0.050	---	---	---	---	---	---	0.055	MEAN

LOCATION - LAT 49 23 05 N DRAINAGE AREA, 39.9 km²
LONG 96 43 53 W NATURAL FLOW

PANSY DRAIN NEAR SARTO - STATION NO. 05OE014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1978	---	0.521 ON APR 9	0B ON MAR 1 *	343	1978
1979	0.816 AT 14:34 CST ON APR 25 *	0.807 ON APR 25 *	0B ON MAR 1	1 620	1979
1980	0.230 AT 11:15 CST ON APR 7	0.133B ON APR 7	0B ON MAR 1	80.4	1980
1981	0.016 AT 19:05 CST ON MAY 29	0.015 ON MAY 30	0B ON MAR 1	11.0	1981
1982	0.566 AT 18:20 CST ON JUN 10	0.554 ON JUN 10	0B ON MAR 1	856	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		582	MEAN

PELICAN CREEK NEAR BIRNIE - STATION NO. 05LL027

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	0.201	0.229	0.051	0.005	0	0	0	---	---	0.061	1974
1975	---	---	0	0.123	0.110	0.079	0.019	0.148	0.242	0.071	---	---	0.098	1975
1976	---	---	0.010	0.328	0.069	0.040	0.013	0	0	0	---	---	0.057	1976
1977	---	---	0	0.010	0.008	0.004	0.002	0	0	0.003	---	---	0.003	1977
1978	---	---	0	0.110	0.061	0.013	0.002	0	0	0.002	---	---	0.023	1978
1979	---	---	0	0.170	0.402	0.089	0.006	0	0	0	---	---	0.083	1979
1980	---	---	0	0.039	0.006	0.001	0	0.047	0.013	0.011	---	---	0.014	1980
1981	---	0.003	0.011	0.050	0.018	0.015	0.001	0	0	0.005	---	---	0.012	1981
1982	---	---	0	0.098	0.067	0.018	0.018	0.015	0.002	0.011	---	---	0.028	1982
MEAN	---	0.003	0.002	0.125	0.108	0.034	0.007	0.023	0.029	0.011	---	---	0.042	MEAN

LOCATION - LAT 50 28 35 N DRAINAGE AREA, 9.07 km²
LONG 99 29 05 W NATURAL FLOW

PELICAN CREEK NEAR BIRNIE - STATION NO. 05LL027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	---	0.606 ON APR 26	0B ON MAR 1 *	1 280	1974
1975	2.86 AT 09:20 CST ON SEP 19 *	1.71 ON SEP 19 *	0B ON MAR 1	2 070	1975
1976	---	0.793 ON APR 17	0 ON JUL 27	1 200	1976
1977	---	0.040 ON MAY 5	0B ON MAR 1	68.7	1977
1978	---	0.249 ON APR 23	0B ON MAR 1	496	1978
1979	---	1.61 A ON MAY 16	0B ON MAR 1	1 770	1979
1980	0.594 AT 07:48 CST ON AUG 21	0.419 ON AUG 21	0B ON MAR 1	306	1980
1981	0.135 AT 16:27 CST ON APR 4	0.118 ON APR 2	0 ON JUL 29	264	1981
1982	---	0.377B ON APR 15	0B ON MAR 1	601	1982
A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		895	MEAN

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05OA010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0.028	1.93	0.065	2.56	0.094	0.769	0.073	0.071	---	---	0.689	1962
1963	---	---	0.329	0.996	0.431	0.984	0.121	0.030	0.017	0.025	---	---	0.363	1963
1964	---	---	0	2.16	0.942	0.380	0.331	0.075	0.089	0.113	---	---	0.507	1964
1965	---	---	0.016	4.19	1.69	0.893	0.548	0.286	0.095	0.057	---	---	0.963	1965
1966	---	---	1.15	1.04	1.18	0.274	0.517	0.057	0.006	0.007	---	---	0.530	1966
1967	---	---	0.052	1.48	0.952	0.204	0.028	0.005	0.002	0.006	---	---	0.339	1967
1968	---	---	0.293	0.356	0.246	0.049	0.035	0.585	1.43	0.240	---	---	0.401	1968
1969	---	---	0	11.7	0.734	0.129	0.808	0.089	0.017	0.027	---	---	1.66	1969
1970	---	---	0	3.33	3.49	0.594	0.110	0.027	0.017	0.029	---	---	0.945	1970
1971	---	---	0	2.08	0.580	0.754	0.747	0.040	0.024	0.334	---	---	0.566	1971
1972	---	---	3.49	4.49	1.28	2.56	0.429	1.07	0.143	0.103	---	---	1.69	1972
1973	---	---	0.573	0.270	0.855	0.941	0.364	0.203	0.242	0.232	---	---	0.460	1973
1974	---	---	0.043	13.1	6.33	0.986	0.108	0.044	0.023	0.031	---	---	2.55	1974
1975	---	---	0.006	9.43	3.77	1.10	0.206	0.045	0.290	0.464	---	---	1.89	1975
1976	---	---	0.093	13.1	0.842	0.200	0.038	0.009	0.004	0.004	---	---	1.76	1976
1977	---	---	0.130	0.254	0.521	0.076	0.098	0.014	0	0.001	---	---	0.137	1977
1978	---	---	0.035	2.16	0.801	0.279	0.218	0.130	0.075	0.024	---	---	0.460	1978
1979	---	---	0	7.33	2.14	0.596	0.037	0.010	0.002	0.001	---	---	1.25	1979
1980	---	---	0.003	1.41	0.098	0.016	0.005	0.111	0.078	0.219	---	---	0.239	1980
1981	---	0.333	0.354	0.220	0.248	0.230	0.120	0.103	0.054	0.052	---	---	0.173	1981
1982	---	---	0.942	4.86	0.711	0.505	0.071	0.007	0.003	0.095	---	---	0.888	1982
MEAN	---	0.333	0.359	4.09	1.33	0.681	0.240	0.177	0.128	0.102	---	---	0.879	MEAN

LOCATION - LAT 49 15 50 N DRAINAGE AREA, 544 km²
LONG 99 27 44 W REGULATED

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.05 AND 0.007 m³/s OCCURRED IN FEB

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05OA010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	25.5 ON JUN 16	0 B ON MAR 1 *	14 600	1962
1963	---	5.66 ON JUN 6	0 B ON MAR 1	7 680	1963
1964	---	7.33 B ON APR 11	0 B ON MAR 1	10 700	1964
1965	---	17.4 B ON APR 13	0 B ON MAR 1	20 400	1965
1966	---	2.89 B ON MAR 25	0 ON MAR 1	11 200	1966
1967	---	3.17 ON APR 30	0 B ON MAR 1	7 180	1967
1968	---	4.42 ON AUG 27	0 B ON MAR 1	8 500	1968
1969	---	44.7 ON APR 12	0 B ON MAR 1	35 100	1969
1970	---	21.2 ON APR 28	0 B ON MAR 1	20 000	1970
1971	---	6.43 ON APR 11	0 B ON MAR 1	12 000	1971
1972	---	18.0 B ON MAR 17	0 B ON MAR 1	35 600	1972
1973	---	3.94 ON JUN 22	0 B ON MAR 1	9 740	1973
1974	---	52.1 ON APR 22 *	0.006 ON AUG 10	54 100	1974
1975	---	38.5 ON APR 29	0.006B ON MAR 1	40 100	1975
1976	---	27.9 ON APR 7	0.003 ON SEP 19	37 200	1976
1977	---	2.12 ON MAY 20	0 ON AUG 29	2 890	1977
1978	---	5.78 B ON APR 6	0 ON AUG 1	9 740	1978
1979	---	45.3 B ON APR 20	0 B ON MAR 1	26 400	1979
1980	---	6.05 B ON APR 4	0.001 ON JUL 29	5 060	1980
1981	---	0.859B ON MAR 18	0.008 ON AUG 22	3 650	1981
1982	14.3 AT 16:46 CST ON APR 14 *	12.1 ON APR 14	0 B ON MAR 1	18 800	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		18 600	MEAN

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO. 05OA012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.763	0.821	0.473	1.03	0.074	0.016	0.003	0	---	---	0.395	1963
1964	---	---	0.015	1.59	0.499	0.137	0.247	0.009	0.008	0	---	---	0.310	1964
1965	---	---	0	4.76	1.35	1.04	0.200	0.055	0.051	0.062	---	---	0.928	1965
1966	---	---	1.30	1.22	1.37	0.410	0.715	0.106	0.003	0	---	---	0.641	1966
1967	---	---	0.085	1.05	0.783	0.177	0.035	0.006	0	0	---	---	0.265	1967
1968	---	---	0.299	0.386	0.162	0.052	0.033	0.356	0.489	0.116	---	---	0.236	1968
1969	---	---	0	12.9	1.19	0.275	1.61	0.063	0.018	0.029	---	---	1.98	1969
1970	---	---	0	3.17	3.27	0.302	0.036	0.007	0	0.003	---	---	0.845	1970
1971	---	---	0	2.07	0.487	0.789	0.722	0.023	0.005	0.298	---	---	0.544	1971
1972	---	---	3.21	3.89	1.11	1.89	0.392	0.985	0.093	0.230	---	---	1.47	1972
1973	---	---	0.432	0.295	0.779	0.973	0.299	0.345	0.197	0.233	---	---	0.444	1973
1974	---	---	0.035	12.5	5.41	0.748	0.084	0.058	0.033	0.034	---	---	2.33	1974
1975	---	---	0.020	8.18	3.21	1.05	0.164	0.025	0.300	0.530	---	---	1.67	1975
1976	---	---	0.052	12.6	0.959	0.397	0.035	0.009	0.002	0	---	---	1.73	1976
MEAN	---	---	0.444	4.67	1.50	0.662	0.332	0.147	0.086	0.110	---	---	0.985	MEAN

LOCATION - LAT 49 16 10 N DRAINAGE AREA, 487 km²
LONG 99 34 40 W NATURAL FLOW

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO. 05OA012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	5.13 ON JUN 6	0 B ON MAR 1 *	8 370	1963
1964	---	3.40B ON APR 12	0 B ON MAR 1	6 570	1964
1965	---	12.0 B ON APR 13	0 B ON MAR 1	19 600	1965
1966	---	3.00B ON MAR 22	0 ON MAR 1	13 600	1966
1967	---	2.56 ON MAY 4	0 B ON MAR 1	5 620	1967
1968	---	3.48 ON AUG 27	0 B ON MAR 1	4 990	1968
1969	---	58.3 ON APR 11 *	0 B ON MAR 1	41 800	1969
1970	---	20.7 ON APR 27	0 B ON MAR 1	17 900	1970
1971	---	7.93B ON APR 10	0 B ON MAR 1	11 500	1971
1972	---	14.6 B ON MAR 17	0 B ON MAR 1	31 100	1972
1973	---	4.87 ON JUN 21	0 B ON MAR 1	9 400	1973
1974	---	43.9 ON APR 17	0 ON AUG 1	49 400	1974
1975	---	46.2 ON APR 29	0.001 ON AUG 20	35 300	1975
1976	---	33.4 B ON APR 3	0 ON JUL 24	36 600	1976
				20 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER AT NECHE - STATION NO. 05OC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1903	---	---	---	---	5.71	4.22	1.71	0.934	0.934	1.13	0.850	0.425	---	1903
1904	0.227	0.113	0.057	42.2	74.8	47.9	23.8	10.9	8.54	6.65	4.81	3.68	18.7	1904
1905	1.67	0.566	5.66	13.6	12.7	13.7	5.84	2.75	2.66	3.37	2.27	0.566	5.46	1905
1906	0.283	0.142	0.057	11.6	5.45	7.69	4.96	3.70	4.17	4.08	2.75	0.425	3.77	1906
1907	0.142	0.057	0.085	4.81	45.3	14.4	4.41	1.54	0.986	1.56	1.08	0.538	6.30	1907
1908	0.170	0.085	0.085	9.29	13.4	6.35	2.49	1.48	1.73	---	---	---	---	1908
1909	---	---	---	---	---	9.32	3.65	1.37	0.784	1.30	0.991	0.142	---	1909
1910	0.085	0.057	5.97	4.69	3.39	1.71	0.989	0.194	0.111	0.181	0.085	0.057	1.47	1910
1911	0.028	0.014	5.61	8.32	6.53	4.36	1.39	0.683	0.162	0.555	0.425	0.283	2.37	1911
1912	0.142	0.057	0.198	4.48	4.93	4.20	3.66	2.42	5.12	5.41	3.40	1.42	2.95	1912
1913	0.566	0.283	0.142	47.4	15.0	5.41	3.01	1.97	1.75	1.80	1.42	0.566	6.58	1913
1914	0.283	0.283	1.42	7.70	6.23	3.81	1.37	0.379	0.364	0.901	0.597	0.255	1.97	1914
1915	0.170	0.142	0.255	1.29	0.715	0.698	0.574	0.248	0.220	---	---	---	---	1915
1919	---	---	---	23.3	10.7	4.64	2.47	0.841	0.975	2.51	1.84	0.850	---	1919
1920	0.566	0.425	0.792	5.06	6.46	4.20	2.17	0.500	0.520	3.58	2.69	1.70	2.39	1920
1921	0.850	0.566	0.566	10.1	4.77	2.73	3.20	0.532	0.460	3.00	1.52	0.850	2.43	1921
1922	0.227	0.127	1.16	12.7	6.88	3.95	0.752	0.265	1.09	1.93	2.09	0.934	2.67	1922
1923	0.566	0.283	0.311	32.4	32.0	8.92	2.44	2.52	2.95	3.22	2.56	0.651	7.42	1923
1924	0.113	0.085	0.198	6.21	4.43	2.79	1.53	0.407	0.582	4.79	2.99	0.566	2.06	1924
1925	0.057	0.057	10.9	11.9	5.57	7.16	3.22	0.539	1.56	4.05	1.90	0.708	3.98	1925
1926	0.340	0.085	1.66	4.11	2.84	2.72	2.63	0.377	1.35	1.65	1.22	0.878	1.66	1926
1927	0.425	0.113	7.96	29.6	32.8	16.1	8.57	5.37	7.72	6.51	3.49	1.42	10.0	1927
1928	1.13	0.708	9.14	10.1	5.91	5.12	4.30	1.68	2.03	3.44	1.27	0.635	3.80	1928
1929	0.340	0.227	5.19	6.22	3.11	2.25	0.176	0.109	0.135	0.538	1.29	0.227	1.65	1929
1930	0.057	0.028	0.028	26.3	13.0	6.11	2.43	0.451	0.338	0.730	0.316	0.079	4.14	1930
1931	0.204	0.187	1.28	13.1	2.91	0.632	0.305	0.058	0.011	0.018	0.140	0.029	1.56	1931
1932	0.004	0.098	0.401	12.0	5.26	2.02	0.598	0.173	0.052	0.213	0.227	0.077	1.75	1932
1933	0	0	0.507	20.4	15.7	9.06	2.11	0.771	0.818	1.34	0.684	0.272	4.30	1933
1934	0.134	0.136	2.13	9.72	4.35	1.92	0.564	0.039	0.003	0.048	0.030	0.002	1.59	1934
1935	0	0	0.357	4.08	1.82	3.06	1.77	0.666	0.421	0.396	0.142	0.062	1.06	1935
1936	0.016	0.001	0	19.3	12.1	5.57	1.61	0.586	0.717	0.401	0.201	0.100	3.37	1936
1937	0.016	0	0	3.17	2.12	1.86	0.404	0.353	0.011	0.023	0.010	0.005	0.663	1937
1938	0	0	5.07	2.86	2.22	1.04	0.353	0.001	0	0	0	0	0.970	1938
1939	0	0	0	0.699	0.333	0.305	0.017	0	0	0	0	0	0.112	1939
1940	0	0	0	2.66	1.00	0.186	0	0.200	0	0	0	0	0.335	1940
1941	0	0	0	28.2	10.9	4.94	1.75	0.797	3.81	3.45	1.47	0.744	4.65	1941
1942	0.100	0.031	1.30	53.8	27.7	10.3	3.66	2.83	1.94	1.43	0.960	0.269	8.68	1942
1943	0.184	0.155	4.39	14.2	8.55	8.92	6.41	5.86	5.12	3.48	2.04	1.13	5.05	1943
1944	0.209	0.103	0.106	7.75	5.77	7.23	16.0	23.0	13.1	5.75	6.62	2.97	7.40	1944
1945	1.22	1.40	21.0	30.6	21.5	12.4	7.28	4.03	2.73	1.89	1.01	0.615	8.83	1945
1946	0.254	0.253	16.1	19.1	8.22	3.21	1.91	0.906	0.575	0.836	0.644	0.209	4.37	1946
1947	0.050	0.034	0.029	17.2	8.27	5.66	2.49	3.46	1.84	1.52	0.796	0.437	3.48	1947
1948	0.398	0.156	0.143	26.3	25.2	11.7	8.83	5.58	3.32	1.89	1.29	0.585	7.11	1948
1949	0.363	0.340	0.324	68.8	44.4	18.6	7.72	4.03	1.96	1.60	1.18	0.504	12.5	1949
1950	0.250	0.199	0.271	51.1	81.7	34.3	16.9	11.6	6.30	4.30	2.49	1.06	17.6	1950
1951	0.892	0.708	1.09	23.9	14.5	7.52	3.40	1.91	1.38	0.818	0.445	0.206	4.73	1951
1952	0.036	0.028	0.036	8.03	5.79	3.48	2.00	0.583	0.128	0.101	0.171	0.039	1.70	1952
1953	0.006	0.003	0.026	2.01	1.32	4.46	2.57	1.81	0.415	0.250	0.271	0.103	1.11	1953
1954	0.030	0.009	0.262	2.68	2.28	11.0	19.4	11.4	5.83	4.07	2.17	0.794	5.03	1954
1955	0.296	0.457	0.386	42.8	24.2	16.4	8.60	3.09	1.61	1.51	0.709	0.409	8.36	1955
1956	0.250	0.242	0.343	23.4	64.1	24.9	10.7	5.17	3.96	2.83	1.79	0.566	12.4	1956
1957	0.446	0.218	3.35	7.80	5.72	3.82	1.81	2.20	3.30	4.68	2.46	1.74	3.14	1957
1958	0.993	0.596	0.686	5.82	3.55	1.10	0.903	0.147	0.065	0.151	0.108	0.009	1.18	1958
1959	0.004	0.003	0.021	14.2	4.71	3.96	1.13	0.510	0.306	0.903	1.75	2.34	2.52	1959
1960	1.87	1.13	0.654	51.9	35.5	13.6	5.76	2.67	1.25	0.753	0.549	0.149	9.62	1960
1961	0.123	0.056	1.39	7.60	5.17	1.61	0.386	0.068	0.103	0.120	0.087	0.027	1.40	1961
1962	0.011	0.004	0.029	19.1	10.7	8.39	3.25	2.35	2.83	1.76	0.893	0.626	4.15	1962
1963	0.522	0.047	2.58	5.57	5.44	7.60	4.87	3.60	2.11	1.29	0.622	0.187	2.88	1963
1964	0.093	0.091	0.078	9.31	9.30	5.76	2.07	1.40	1.62	1.24	0.642	0.197	2.65	1964
1965	0.125	0.105	0.078	24.4	19.9	12.8	5.14	2.12	2.68	2.41	1.45	0.965	6.02	1965
1966	0.608	0.464	3.94	43.8	27.3	11.0	6.85	3.21	1.27	0.733	0.447	0.206	8.32	1966
1967	0.229	0.238	0.753	26.1	28.6	9.00	2.98	1.09	0.378	0.626	0.544	0.177	5.90	1967
1968	0.073	0.051	4.41	5.80	4.07	1.98	1.24	3.92	9.71	10.7	5.41	1.60	4.08	1968
1969	0.660	0.480	0.665	89.2	51.1	17.6	10.3	5.20	3.43	2.29	1.65	0.830	15.3	1969
1970	0.491	0.430	0.333	45.7	65.5	41.5	22.9	9.13	5.10	3.34	2.20	0.690	16.5	1970
1971	0.415	0.390	0.457	67.9	42.9	16.5	9.73	7.54	4.46	2.96	1.98	0.974	13.0	1971
1972	0.489	0.308	11.2	37.7	25.2	10.1	5.63	5.04	3.14	2.12	0.997	0.240	8.51	1972
1973	0.079	0.076	2.57	2.87	2.01	1.45	1.80	1.74	1.75	1.72	1.09	0.589	1.49	1973
1974	0.299	0.176	0.332	85.7	131	50.3	15.0	4.24	2.80	1.84	1.10	0.613	24.5	1974
1975	0.336	0.207	0.232	10.2	34.6	18.8	7.48	2.86	1.42	1.25	0.797	0.339	6.59	1975
1976	0.373	0.424	0.869	78.4	41.0	14.2	7.13	2.41	1.17	0.794	0.417	0.072	12.2	1976
1977	0.062	0.065	0.433	1.96	2.27	1.39	0.534	0.162	0.723	0.825	0.308	0.170	0.743	1977
1978	0.085	0.012	0.002	33.1	14.7	5.51	1.93	1.33	1.41	0.704	0.331	0.143	4.93	1978
1979	0.106	0.093	0.135	56.4	93.0	24.6	8.17	2.28	1.76	1.30	0.778	0.374	15.8	1979
1980	0.183	0.143	0.165	5.80	2.39	1.04	0.318	0.324	0.365	0.594	0.704	0.165	1.01	1980
1981	0.039	0.712	3.18	6.25	3.89	1.86	0.799	0.400	0.178	0.394	0.315	0.104	1.51	1981
1982	0.028	0.001	0.946	17.1	18.3	14.7	7.40	3.79	1.73	2.30	0.816	0.587	5.66	1982
MEAN	0.299	0.210	2.06	21.5	18.6	9.11	4.61	2.61	2.06	1.98	1.28	0.502	5.56	MEAN

LOCATION - LAT 48 59 20 N DRAINAGE AREA, 8 470 km²
LONG 97 33 05 W REGULATED

INTERNATIONAL GAUGING STATION

REMARKS - FORMERLY PUBLISHED UNDER STA. NO. 05OC001

PEMBINA RIVER AT NECHE - STATION NO. 05OC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1903	---	---	---	---	1903
1904	122 ON MAY 2	110 ON MAY 2	0.057E ON MAR 1	589 000	1904
1905	---	38.8 ON APR 5	0.566E ON FEB 1	172 000	1905
1906	2[illegible].7 R ON APR 4	11.6 E ON APR 1	0.057E ON MAR 1	119 000	1906
1907	---	62.0 ON MAY 14	0.057E ON FEB 1	198 000	1907
1908	26.2 R ON APR 10	16.7 ON MAY 11	---	---	1908
1909	---	---	---	---	1909
1910	19.4 R ON MAR 15	7.08 ON APR 20	0.057E ON FEB 1	46 300	1910
1911	25.5 R ON MAR 24	14.7 ON MAY 18	0.014E ON FEB 1	74 800	1911
1912	28.3 ON JUL 29	24.6 ON JUL 29	0.057E ON FEB 1	93 500	1912
1913	110 ON APR 7	109 ON APR 8	0.142E ON MAR 1	208 000	1913
1914	---	11.0 ON APR 18	0.170 ON SEP 11	62 100	1914
1915	5.10 ON APR 7	4.36 ON APR 7	---	---	1915
1919	---	68.8 ON APR 15	---	---	1919
1920	---	10.2 B ON APR 19	0.283B ON MAR 26	75 600	1920
1921	---	20.8 ON APR 13	0.127 ON SEP 23	76 800	1921
1922	---	36.8 ON APR 7	0.127B ON FEB 1	84 200	1922
1923	---	88.3 ON APR 20	0.283E ON FEB 1	234 000	1923
1924	---	19.1 ON APR 20	0.085E ON FEB 1	65 000	1924
1925	---	66.5 ON MAR 28	0.057E ON JAN 1	126 000	1925
1926	---	9.00 ON JUL 6	0.057E ON MAR 1	52 400	1926
1927	88.1 ON MAY 12	86.4 ON MAY 12	0.113B ON FEB 1	317 000	1927
1928	---	36.0 B ON MAR 25	0.566B ON DEC 16	120 000	1928
1929	---	21.2 B ON MAR 21	0.028 ON JUL 5	52 100	1929
1930	---	82.1 B ON APR 8	0.028B ON FEB 1	130 000	1930
1931	44.7 B ON APR 9	42.2 B ON APR 9	0.006 ON SEP 9	49 400	1931
1932	35.1 B ON APR 9	33.1 B ON APR 9	0 B ON FEB 1 *	[illegible]3 200	1932
1933	---	33.4 ON MAY 26	0 E ON JAN 1	136 000	1933
1934	---	22.1 B ON APR 9	0 ON SEP 15	50 000	1934
1935	---	10.3 ON JUN 18	0 ON JAN 1	33 600	1935
1936	---	71.6 ON APR 15	0 ON FEB 10	107 000	1936
1937	6.71 ON JUN 8	6.03 ON APR 11	0 ON JAN 29	20 900	1937
1938	20.7 AT 02:00 CST ON MAR 20	17.8 ON MAR 19	0 E ON JAN 1	30 600	1938
1939	1.47B ON APR 4	1.42B ON APR 4	0 ON JAN 1	3 540	1939
1940	23.1 B AT 18:00 CST ON APR 20	20.7 B ON APR 20	0 E ON JAN 1	10 600	1940
1941	---	80.1 ON APR 14	0 E ON JAN 1	147 000	1941
1942	101 IN APR	97.1 ON APR 8	0.023B ON FEB 11	273 000	1942
1943	39.6 B ON MAR 27	31.1 B ON MAR 27	0.096B ON MAR 9	159 000	1943
1944	---	34.0 ON AUG 6	0.074B ON FEB 10	234 000	1944
1945	69.1 AT 19:00 CST ON MAR 29	68.0 ON MAR 29	0.311B ON DEC 30	279 000	1945
1946	---	58.6 B ON MAR 24	0.085B ON DEC 29	138 000	1946
1947	37.4 AT 10:00 CST ON APR 11	36.5 ON APR 11	0.017B ON FEB 2	110 000	1947
1948	107 AT 08:30 CST ON APR 21	102 ON APR 21	0.142B ON FEB 8	225 000	1948
1949	142 AT 15:00 CST ON APR 22	139 ON APR 22	0.255B ON DEC 29	393 000	1949
1950	303 B AT 09:30 CST ON APR 20 *	218 B ON APR 20	0.198B ON JAN 31	555 000	1950
1951	56.6 B AT 13:00 CST ON APR 7	55.2 B ON APR 7	0.057B ON DEC 29	149 000	1951
1952	---	14.2 B ON APR 3	0.008 ON DEC 31	53 700	1952
1953	7.08 ON JUN 10	6.74 ON JUN 11	0 ON MAR 10	34 900	1953
1954	24.0 AT 16:00 CST ON JUL 7	23.6 ON JUL 7	0.008B ON FEB 6	159 000	1954
1955	76.5 AT 18:00 CST ON APR 5	73.6 ON APR 5	0.227 ON JAN 21	264 000	1955
1956	147 AT 02:00 CST ON APR 27	136 ON APR 27	0.198 ON FEB 25	392 000	1956
1957	18.7 AT 22:30 CST ON MAR 27	17.0 ON MAR 27	0.142 ON MAR 11	98 900	1957
1958	12.5 AT 16:30 CST ON APR 7	10.5 ON APR 7	0.003B ON DEC 12	37 100	1958
1959	51.0 B AT 22:30 CST ON APR 5	48.1 B ON APR 5	0.003B ON JAN 7	79 400	1959
1960	114 B AT 10:00 CST ON APR 14	108 B ON APR 14	0 ON SEP 16	305 000	1960
1961	10.5 AT 21:00 CST ON APR 3	9.91 ON APR 3	0 ON AUG 29	44 100	1961
1962	103 B AT 14:30 CST ON APR 21	102 B ON APR 21	0 ON FEB 21	131 000	1962
1963	32.6 AT 00:20 CST ON JUL 28	24.5 ON JUL 28	0.003 ON MAR 9	90 800	1963
1964	30.6 B AT 16:30 CST ON APR 17	22.5 B ON APR 17	0.062B ON MAR 10	83 600	1964
1965	102 AT 00:00 CST ON APR 14	96.3 ON APR 14	0.054B ON MAR 29	190 000	1965
1966	122 B AT 10:00 CST ON APR 3	113 B ON APR 3	0.144B ON DEC 12	263 000	1966
1967	82.1 AT 13:00 CST ON APR 23	80.4 ON APR 23	0.065 ON DEC 28	186 000	1967
1968	20.8 AT 06:00 CST ON MAR 28	20.6 ON MAR 28	0.045 ON FEB 13	129 000	1968
1969	208 AT 13:45 CST ON APR 21	197 ON APR 22	0.340B ON JAN 28	481 000	1969
1970	200 AT 20:00 CST ON APR 27	180 ON APR 28	0.170B ON MAR 31	521 000	1970
1971	208 AT 12:30 CST ON APR 12	200 ON APR 12	0.340B ON FEB 19	410 000	1971
1972	72.2 AT 00:30 CST ON APR 16	66.0 B ON APR 15	0.113B ON DEC 21	269 000	1972
1973	6.34 ON MAR 27	6.06 ON MAR 27	0.076B ON JAN 5	46 900	1973
1974	292 AT 05:00 CST ON APR 28	282 ON APR 28 *	0.170B ON FEB 6	772 000	1974
1975	42.5 AT 03:00 CST ON MAY 18	42.2 ON MAY 16	0.153 ON MAR 14	208 000	1975
1976	125 AT 19:00 CST ON APR 19	124 ON APR 19	0.057B ON DEC 8	386 000	1976
1977	7.39 AT 09:00 CST ON MAY 21	6.63 ON MAY 21	0.057B ON JAN 1	23 400	1977
1978	---	95.7 B ON APR 11	0 B ON MAR 7	155 000	1978
1979	---	263 B ON APR 21	0.085B ON JAN 17	499 000	1979
1980	12.3 AT 07:00 CST ON APR 7	12.1 ON APR 7	0.057B ON DEC 25	31 900	1980
1981	8.07 AT 12:00 CST ON APR 1	7.39 ON APR 1	0.010B ON FEB 14	47 600	1981
1982	---	40.5 ON JUN 8	0 B ON FEB 8	178 000	1982
				175 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1980

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO. 05OB023

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	4.00	3.44	4.62	2.73	0.844	1.02	---	---	---	---	1962
1963	---	---	0.381	3.44	2.55	5.71	1.67	0.850	0.150	0.111	0.082	0.011	---	1963
1964	0	0	0.010	7.76	5.27	0.693	0.883	0.077	0.025	0.120	0.040	0.024	1.24	1964
1965	0.010	0.006	0.036	11.1	13.4	5.72	0.766	1.35	0.088	0.907	0.701	0.451	2.95	1965
1966	0.217	0	4.99	11.7	6.97	2.80	1.06	0.201	0.083	0.064	0.038	0.015	2.41	1966
1967	0.021	0.032	0.380	7.99	8.81	1.27	0.302	0.220	0.020	0.009	0.020	0.006	1.55	1967
1968	0	0	1.17	0.176	0.149	0.354	0.422	3.57	12.8	4.95	0.355	0.130	2.00	1968
1969	0.182	0.485	1.15	80.2	23.1	7.27	3.31	3.01	0.613	0.285	0.186	0.085	9.94	1969
1970	0.070	0.167	0.405	18.3	37.9	20.7	8.80	2.54	0.694	0.339	0.192	0.101	7.55	1970
1971	0.053	0.035	0.058	36.6	17.0	7.65	10.5	3.37	0.453	0.212	0.507	1.06	6.46	1971
1972	0.516	0.218	8.44	19.4	13.2	6.76	5.33	1.49	1.31	0.243	0.206	0.130	4.77	1972
1973	0.135	0.082	0.575	0.792	0.772	1.89	2.41	0.800	1.14	0.894	0.450	0.450	0.870	1973
1974	0.323	0.377	0.389	76.7	49.9	21.6	4.50	0.659	0.110	0.060	0.020	0.017	12.9	1974
1975	0.019	0.017	0.016	12.0	32.2	10.7	3.13	0.108	0.048	0.069	0.054	0.040	4.89	1975
1976	1.57	0.132	0.003	63.6	19.2	5.68	0.799	0.093	0.034	0.014	0.010	0.010	7.54	1976
1977	0.011	0.017	0.018	0.074	0.083	0.061	0.052	0.017	0.016	0.020	0.019	0.018	0.034	1977
1978	0.024	0.024	0.048	10.8	5.77	2.16	0.440	0.028	0.007	0.015	0.010	0.007	1.61	1978
1979	0.002	0.001	0.003	40.4	35.4	7.53	1.05	0.098	0.125	0.048	0.056	0.025	7.06	1979
1980	0.018	0.019	0.021	2.43	0.353	0.106	0.089	0.085	0.006	0.026	0.001	0.001	0.253	1980
1981	0.007	0.046	3.72	4.92	0.191	0.103	0.042	0.043	0.047	0.056	0.059	0.044	0.774	1981
1982	0.012	0.009	0.251	16.9	11.1	9.09	3.06	0.633	0.087	0.077	0.052	0.218	3.46	1982
MEAN	0.168	0.088	1.05	20.4	13.6	5.83	2.48	0.953	0.937	0.426	0.153	0.142	4.12	MEAN

LOCATION - LAT 49 13 18 N DRAINAGE AREA, 4 480 km^2
LONG 99 02 03 W REGULATED SINCE 1940

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO. 05OB023

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	19.8 B ON APR 18	0 B ON MAR 1 *	---	1962
1963	---	11.3 ON JUN 11	0 B ON MAR 1	---	1963
1964	---	11.5 ON APR 18	0 B ON JAN 1	39 200	1964
1965	---	20.7 ON APR 20	0.006B ON FEB 1	93 100	1965
1966	---	23.1 B ON MAR 31	0 B ON JAN 31	76 200	1966
1967	---	15.3 ON APR 25	0 B ON DEC 19	49 000	1967
1968	---	16.9 ON SEP 9	0 B ON JAN 1	63 200	1968
1969	---	278 B ON APR 15	0.068B ON JAN 1	313 000	1969
1970	---	78.7 ON MAY 16	0.065B ON JAN 16	239 000	1970
1971	---	80.7 ON APR 12	0.034B ON FEB 11	204 000	1971
1972	---	22.0 ON APR 14	0.113B ON DEC 26	151 000	1972
1973	---	3.20 ON JUL 7	0.071B ON FEB 15	27 400	1973
1974	---	317 ON APR 22 *	0.010B ON NOV 14	406 000	1974
1975	---	59.5 ON MAY 4	0.011 ON SEP 15	154 000	1975
1976	---	118 B ON APR 8	0.010B ON NOV 3	238 000	1976
1977	---	0.122B ON APR 10	0.009B ON JAN 1	1 070	1977
1978	---	16.8 B ON APR 11	0 ON SEP 10	50 700	1978
1979	---	167 ON APR 25	0.001B ON JAN 20	223 000	1979
1980	---	4.90 A ON APR 9	0 ON JUL 30	8 010	1980
1981	12.1 AT 12:53 CST ON MAR 31	12.0 ON MAR 31	0.001B ON JAN 1	24 400	1981
1982	27.8 AT 07:25 CST ON APR 17 *	27.8 ON APR 18	0.008B ON FEB 16	109 000	1982
				130 000	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

PEMBINA RIVER NEAR KALEIDA - STATION NO. 05OB008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	3.92	1.73	2.04	---	1957
1958	1.01	0.481	0.546	4.37	2.26	0.546	0.318	0.026	0.008	0.013	0.256	0.102	0.826	1958
1959	0.016	0	0.263	5.46	2.11	1.18	0.261	0.198	0.118	0.952	2.81	3.06	1.37	1959
1960	1.55	1.24	0.577	46.4	33.3	10.4	4.19	1.99	0.891	0.511	0.191	0.119	8.42	1960
1961	0.123	0.057	0.609	7.18	3.97	0.777	0.080	0.015	0.022	0.007	0	0	1.07	1961
1962	0	0	0.001	8.17	5.98	4.49	1.77	2.31	2.67	1.14	0.628	0.467	2.30	1962
1963	0.203	0	0.869	3.90	6.21	6.27	2.68	2.91	1.64	0.763	0.438	0.044	2.16	1963
1964	0	0	0.006	6.22	9.62	3.21	0.679	0.716	0.400	0.497	0.224	0.005	1.83	1964
1965	0	0	0	13.9	18.1	10.7	3.61	1.71	2.69	1.94	1.27	0.691	4.55	1965
1966	0.258	0	4.99	30.0	19.8	8.17	3.57	1.64	0.576	0.174	0.156	0.047	5.79	1966
1967	0.085	0.132	0.812	14.4	19.7	7.01	1.74	0.377	0.093	0.462	0.105	0.066	3.77	1967
1968	0	0	3.11	3.23	1.61	0.710	0.714	2.92	11.3	11.4	4.75	1.33	3.43	1968
1969	0.475	0.418	0.405	95.0	47.4	13.4	7.52	3.81	2.56	1.61	0.953	9.700	14.5	1969
MEAN	0.310	0.194	1.02	19.9	14.2	5.57	2.25	1.55	1.95	1.80	1.04	0.668	4.17	MEAN

LOCATION - LAT 49 03 30 N DRAINAGE AREA, 7 120 km^2
LONG 98 27 50 W REGULATED

PEMBINA RIVER NEAR KALEIDA - STATION NO. 05OB008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	8.58 ON APR 6	0.006A ON SEP 2	26 000	1958
1959	15.0B AT 20:00 CST ON APR 5	14.2 B ON APR 5	0 B ON JAN 19 *	43 200	1959
1960	75.3 AT 06:00 CST ON APR 24 *	74.2 ON APR 24	0.051B ON DEC 26	266 000	1960
1961	---	8.89B ON APR 18	0 ON OCT 27	33 600	1961
1962	36.2 AT 20:40 CST ON APR 20	34.5 ON APR 20	0 B ON JAN 1	72 600	1962
1963	---	8.44 ON JUN 5	0 B ON JAN 15	68 200	1963
1964	---	11.7 ON MAY 10	0 B ON JAN 1	58 000	1964
1965	---	35.1 B ON APR 14	0 B ON JAN 1	144 000	1965
1966	65.1B AT 01:30 CST ON APR 3	58.0 B ON APR 3	0 B ON FEB 1	183 000	1966
1967	46.7 AT 16:30 CST ON APR 23	40.5 ON APR 23	0 B ON DEC 30	119 000	1967
1968	---	15.1 ON SEP 27	0 B ON JAN 1	108 000	1968
1969	---	266 ON APR 19 *	0.314B ON MAR 17	457 000	1969
MEAN				132 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR KILLARNEY - STATION NO. 05OA008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.803	0.159	0.064	0.065	0.001	0.335	0.010	0.836	---	---	0.287	1959
1960	---	---	0.256	5.08	2.14	0.525	0.027	0	0	0	---	---	0.992	1960
1961	---	---	0.711R	0.344R	0.139	0.012	0	0	0	0	---	---	0.151R	1961
1962	---	---	0.044	1.83	0.220	1.19	0.036	0.031	0	0	---	---	0.411	1962
1963	---	---	0.491	0.827	0.521	0.988	0.014	0.009	0.005	0.082	---	---	0.354	1963
1964	---	---	0.002	2.39 R	0.651	0.431	0.138	0.005	0.010	0.020	---	---	0.450R	1964
1965	---	---	0	3.16	1.26	0.592	0.420	0.154	0.209	0.113	---	---	0.732	1965
1966	---	---	1.15	1.07	1.80	0.332	0.746	0.084	0.002	0	---	---	0.650	1966
1967	---	---	0.029	0.873	0.640	0.146	0.003	0	0	0	---	---	0.210	1967
1968	---	---	0.096	0.175	0.099	0.033	0.026	0.492R	0.738	0.107	---	---	0.220R	1968
1969	---	---	0 R	8.83 R	1.15 R	0.427R	2.00 R	0.111R	0.006R	0.017R	---	---	1.55 R	1969
1970	---	---	0	2.88	3.39 R	0.188R	0.036R	0.008R	0	0	---	---	0.818R	1970
1971	---	---	0	2.26	0.363	1.04	0.934	0.001	0	0.366	---	---	0.615	1971
1972	---	---	3.06	3.89	1.25	2.51	0.216	0.075	0.050	0.019	---	---	1.37	1972
1973	---	---	0.310	0.167	0.776	1.44	0.309	0.277	0.214	0.264	---	---	0.467	1973
1974	---	---	0.003	12.1	4.91	0.580	0.075	0.074	0.007	0.044	---	---	2.21	1974
1975	---	---	0.014	7.81	2.62	1.25	0.086	0.031	0.409	0.923	---	---	1.62	1975
1976	---	---	1.03	9.89	0.540	0.116	0.005	0	0	0	---	---	1.42	1976
1977	---	---	0.104	0.113	0.159	0.042	0.130	0.022	0.003	0.005	---	---	0.072	1977
1978	---	---	0.029	1.23	0.733	0.331	0.048	0	0	0	---	---	0.294	1978
1979	---	---	0	7.06	1.70	0.399	0.016	0.001	0	0	---	---	1.13	1979
1980	---	---	0	0.714	0.008	0	0	0.110	0.077	0.166	---	---	0.133	1980
1981	---	0.600	0.271	0.158	0.141	0.252	0.071	0.075	0.018	0.020	---	---	0.126	1981
1982	---	---	0.443	2.43	0.429	0.137	0.035	0.007	0.002	0.039	---	---	0.435	1982
MEAN	---	0.600	0.369R	3.14 R	1.07 R	0.543R	0.224R	0.079R	0.073R	0.123R	---	---	0.696	MEAN

LOCATION - LAT 49 12 41 N LONG 99 44 36 W DRAINAGE AREA, 355 km^2 NATURAL FLOW

R - REVISED SINCE JAN 1980

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.60 AND 0 m^3/s OCCURRED IN FEB

PEMBINA RIVER NEAR KILLARNEY - STATION NO. 05OA008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.63 B ON MAR 20	0 B ON MAR 1 *	6 070	1959
1960	---	13.1 ON APR 6	0 B ON MAR 1	21 000	1960
1961	---	4.87 B ON MAR 22	0 B ON MAR 1	3 200R	1961
1962	---	16.2 ON JUN 16	0 B ON MAR 1	8 700	1962
1963	---	6.09 ON JUN 5	0 B ON MAR 1	7 490	1963
1964	---	8.41 R ON APR 10	0 B ON MAR 1	9 520R	1964
1965	---	10.7 ON APR 13	0 B ON MAR 1	15 500	1965
1966	---	5.01 ON JUL 4	0 B ON MAR 1	13 800	1966
1967	---	2.89 ON APR 29	0 B ON MAR 1	4 430	1967
1968	---	3.65 E ON AUG 25	0 B ON MAR 1	4 650R	1968
1969	39.1R AT 16:00 CST ON APR 12 *	30.0 R ON APR 11	0 RB ON MAR 1	32 800R	1969
1970	---	15.2 ON APR 27	0 B ON MAR 1	17 100R	1970
1971	---	10.8 B ON APR 7	0 B ON MAR 1	13 000	1971
1972	---	15.9 B ON MAR 17	0 B ON MAR 1	29 100	1972
1973	---	9.00 ON JUN 19	0 B ON MAR 1	9 890	1973
1974	---	39.4 ON APR 21	0 ON JUL 25	46 600	1974
1975	---	37.1 ON APR 29	0.003 ON JUL 30	34 300	1975
1976	---	22.7 B ON APR 2	0 B ON JUL 23	30 100	1976
1977	---	0.623E ON MAY 19	0 ON AUG 29	1 530	1977
1978	---	3.40 E ON MAY 26	0 ON AUG 2	6 210	1978
1979	---	71.4 B ON APR 20 *	0 B ON MAR 1	23 900	1979
1980	---	3.34 B ON APR 5	0 B ON MAR 1	2 810	1980
1981	---	0.[illegible]98 ON AUG 4	0 ON JUL 28	2 660	1981
1982	11.4 AT 07:15 CST ON APR 14	10.[illegible] ON APR 14	0 B ON MAR 1	9 210	1982
MEAN				14 700R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 1980

PEMBINA RIVER NEAR LA RIVIERE - STATION NO. 05OB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.717	3.22	3.83	3.88	2.10	2.98	1.60	0.686	0.346	0.036	---	1963
1964	0	0	0	5.45	7.13	1.85	0.488	0.653	0.441	0.326	0.211	0.023	1.38	1964
1965	0.002	0	0	8.70	15.0	10.0	3.20	1.45	1.67	1.84	1.17	0.603	3.65	1965
1966	0.165	0	2.71	15.9	12.5	7.31	4.25	1.47	0.369	0.088	0.067	0.022	3.75	1966
1967	0.047	0.081	0.438	7.88	11.1	4.61	0.954	0.286	0.119	0.075	0.092	0.032	2.15	1967
1968	0	0	1.53	1.89	1.65	0.803	0.508	2.97	10.2	9.47	4.00	1.23	2.85	1968
1969	0.282	0.334	0.680	89.1	37.8	11.9	6.72	3.60	2.35	1.47	1.12	0.532	12.9	1969
1970	0.249	0.114	0.089	16.2	39.4	22.5	13.6	4.90	2.64	1.91	1.04	0.199	8.61	1970
1971	0.021	0.014	0.015	30.8	27.5	9.32	7.75	6.48	3.38	2.01	1.13	0.558	7.44	1971
1972	0.524	0.099	2.92	25.6	18.1	6.91	4.77	4.04	2.49	1.31	0.769	0.064	5.62	1972
1973	0.003	0.002	0.515	1.90	1.18	0.797	1.42	1.47	1.24	1.33	0.880	0.611	0.951	1973
1974	0.250	0.310	0.579	70.5	76.4	35.6	9.10	2.39	1.49	0.746	0.392	0.178	16.5	1974
1975	0.110	0.016	0.024	4.92	33.1	13.0	4.97	1.74	0.930	0.668	0.348	0.186	5.04	1975
1976	0.216	1.74	0.652	68.0	38.2	10.2	2.19	0.826	0.479	0.259	0.106	0.021	10.2	1976
1977	0.013	0.013	0.037	0.158	0.925	0.303	0.046	0.007	0.221	0.085	0.033	0.022	0.156	1977
MEAN	0.134	0.195	0.727	23.3	21.6	9.27	4.14	2.35	1.97	1.48	0.780	0.288	5.80	MEAN

LOCATION - LAT 49 13 50 N DRAINAGE AREA, 5 310 km²
LONG 98 41 20 W REGULATED

PEMBINA RIVER NEAR LA RIVIERE - STATION NO. 05OB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1963	---	4.87 ON MAY 3	0 B ON MAR 1 *	---	1963
1964	---	8.78 ON MAY 1	0 B ON JAN 1	43 700	1964
1965	---	16.0 ON MAY 5	0 B ON JAN 10	115 000	1965
1966	---	18.8 ON MAY 5	0 B ON JAN 28	118 000	1966
1967	---	21.3 ON APR 21	0 B ON DEC 24	67 800	1967
1968	---	13.5 ON SEP 23	0 B ON JAN 1	90 300	1968
1969	---	263 ON APR 18	0.221B ON JAN 8	408 000	1969
1970	47.6 AT 20:30 CST ON MAY 15	47.0 ON MAY 15	0.057B ON DEC 31	271 000	1970
1971	---	67.7 ON APR 24	0.011B ON MAR 10	235 000	1971
1972	---	37.4 B ON APR 10	0.006B ON DEC 31	178 000	1972
1973	4.84 AT 09:24 CST ON JUL 8	4.73 ON JUL 8	0.001B ON FEB 10	30 000	1973
1974	306 AT 07:51 CST ON APR 25 *	303 ON APR 25 *	0.142B ON FEB 3	521 000	1974
1975	48.7 AT 12:00 CST ON MAY 11	48.1 ON MAY 11	0.009B ON FEB 16	159 000	1975
1976	114 AT 13:15 CST ON APR 14	113 ON APR 14	0.014B ON DEC 28	321 000	1976
1977	8.55 AT 10:02 CST ON MAY 19	6.34 ON MAY 19	0 ON JUL 25	4 930	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		183 000	MEAN

PEMBINA RIVER NEAR MANITOU - STATION NO. 05OB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	3.92	1.26	3.25	0.284	0.326	0.475	---	---	---	1921
1922	---	---	---	7.48	4.57	1.52	0.314	0.243	0.318	---	---	---	---	1922
1923	---	---	---	20.1	22.1	5.55	1.86	2.40	---	---	---	---	---	1923
1924	---	---	---	---	2.73	2.01	0.557	---	---	---	---	---	---	1924
1925	---	---	3.68	7.52	4.35	2.48	1.25	1.06	---	---	---	---	---	1925
1926	---	---	---	---	1.01	0.600	0.455	0.332	---	---	---	---	---	1926
1927	---	---	---	15.8	13.0	10.6	5.77	5.94	8.48	5.96	---	---	---	1927
1928	---	---	4.37	6.44	3.97	2.52	1.15	0.781	---	---	---	---	---	1928
1929	---	---	---	2.35	2.40	0.728	0.372	0.047	0.027	0.087	---	---	---	1929
1930	---	---	---	14.8	9.36	3.63	0.850	0.478	0.492	0.668	---	---	---	1930
1931	---	---	---	3.43	1.70	0.535	0.138	0.016	0.017	0.029	---	---	---	1931
1932	---	---	---	6.52	3.24	1.03	0.469	---	---	---	---	---	---	1932
1933	---	---	0.312	15.3	11.5	5.57	1.32	0.642	1.11	1.11	---	---	---	1933
1934	---	---	---	6.60	3.15	1.16	0.233	0.011	0.006	0.012	---	---	---	1934
1935	---	---	---	1.75	1.08	0.939	0.806	0.886	0.465	0.381	---	---	---	1935
1936	---	---	0	10.7	9.85	4.31	1.17	0.453	0.567	0.471	---	---	---	1936
1937	---	---	0	1.10	0.787	0.719	0.101	0.024	0.002	0.007	---	---	---	1937
1938	---	---	1.84	2.29	1.71	0.620	0.149	0.053	0.003	0.013	---	---	---	1938
1939	---	---	0.038	0.302	0.113	0.036	0.005	0	0	0	---	---	---	1939
1940	---	---	0	0.481	0.099	0.013	0.002	0.098	0.007	0	---	---	---	1940
1941	---	---	0	14.7	7.52	2.39	0.681	0.703	1.05	1.05	---	---	---	1941
1942	---	---	1.56	39.0	18.3	5.90	1.71	1.36	1.15	0.847	---	---	---	1942
1943	---	---	1.99	9.48	6.06	3.18	2.77	5.80	4.54	2.89	---	---	---	1943
1944	---	---	---	3.21	4.41	5.12	22.3	17.4	8.81	4.15	3.54	---	---	1944
1945	---	---	11.3	24.1	14.8	7.88	5.62	2.70	1.81	1.20	---	---	---	1945
1946	---	---	8.77	12.9	5.11	1.73	1.01	0.493	0.310	0.392	0.283	---	---	1946
1947	---	---	---	9.19	5.92	2.48	1.02	1.45	1.29	0.943	---	---	---	1947
1948	---	---	---	9.47	16.6	7.44	4.50	3.92	2.43	1.16	---	---	---	1948
1949	---	---	---	58.8	30.8	13.3	5.49	2.64	1.50	0.862	---	---	---	1949
1950	---	---	---	19.0	37.4	24.8	12.3	8.43	4.84	3.03	---	---	---	1950
1951	---	---	---	13.5	11.3	5.50	2.24	1.03	0.536	0.206	---	---	---	1951
1952	---	---	---	5.80	4.52	2.33	0.814	0.200	0.018	0.023	0.001	---	---	1952
1953	---	---	---	1.26	0.577	2.66	1.60	0.678	0.174	0.069	0.063	---	---	1953
1954	---	---	---	1.06	0.681	9.01	17.8	8.29	3.06	2.05	1.18	---	---	1954
1955	---	---	0.311	30.2	17.4	9.11	5.13	1.70	0.630	0.437	---	---	---	1955
1956	---	---	---	13.6	45.1	15.0	6.61	3.68	2.66	2.21	0.744	0.114	---	1956
1957	0.090	0.037	2.58	5.99	3.51	1.96	0.597	1.17	2.63	---	---	---	---	1957
MEAN	0.090	0.037	2.45	11.3	8.94	4.47	3.04	2.15	1.61	1.06	0.969	0.114	---	MEAN

LOCATION - LAT 49 08 50 N DRAINAGE AREA, 5 590 km²
LONG 98 33 45 W REGULATED

PEMBINA RIVER NEAR MANITOU - STATION NO. 05OB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	21.4 ON JUL 4	---	---	1921
1922	---	19.3 E ON APR 4	---	---	1922
1923	---	68.5 E ON APR 19	---	---	1923
1924	---	---	---	---	1924
1925	---	24.6 E ON MAR 26	---	---	1925
1926	---	1.53 ON APR 24	---	---	1926
1927	---	25.2 ON APR 13	---	---	1927
1928	---	16.4 E ON MAR 24	---	---	1928
1929	---	5.24 ON APR 18	---	---	1929
1930	---	28.6 E ON APR 6	---	---	1930
1931	---	8.07E ON APR 6	---	---	1931
1932	---	18.4 E ON APR 8	---	---	1932
1933	---	---	---	---	1933
1934	---	11.2 E ON APR 7	0 ON OCT 1 *	---	1934
1935	---	4.81E ON APR 13	---	---	1935
1936	---	---	---	---	1936
1937	---	---	---	---	1937
1938	---	---	---	---	1938
1939	---	---	---	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	---	---	---	1942
1943	---	---	---	---	1943
1944	---	34.5 ON JUL 20	---	---	1944
1945	---	---	---	---	1945
1946	---	---	---	---	1946
1947	---	14.6 ON APR 4	---	---	1947
1948	---	33.7 ON APR 21	---	---	1948
1949	---	142 ON APR 17 *	---	---	1949
1950	---	75.3 B ON APR 17	---	---	1950
1951	---	18.2 ON APR 5	---	---	1951
1952	---	15.7 B ON APR 1	0 ON SEP 13	---	1952
1953	---	8.10 ON JUN 5	---	---	1953
1954	---	27.0 ON JUL 1	---	---	1954
1955	---	---	---	---	1955
1956	---	70.2 ON MAY 1	---	---	1956
1957	---	12.7 B ON MAR 23	---	---	1957
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	2.07	4.72	4.34	2.61	2.62	1.68	0.620	---	---	2.33	1962
1963	---	---	0.245	3.01	4.20	4.11	2.38	2.39	1.55	0.536	---	---	2.30	1963
1964	---	---	0	5.06	8.03	3.00	3.79	2.53	0.838	0.257	---	---	2.94	1964
1965	---	---	0	8.24	16.2	8.76	2.27	1.92	2.01	1.45	---	---	5.09	1965
1966	---	---	1.37	13.6	10.1	4.78	2.55	0.942	0.121	0.120	---	---	4.16	1966
1967	---	---	0.006	5.26	11.5	4.06	1.13	0.081	0.040	0.020	---	---	3.75	1967
1968	---	---	0.370	1.52	0.651	0.428	0.495	1.57	10.5	7.87	---	---	2.91	1968
1969	---	---	0	81.7	42.7	11.0	5.17	3.26	1.93	0.948	---	---	18.2	1969
1970	---	---	0.055	12.4	36.7	24.9	14.7	5.43	2.33	1.58	---	---	12.2	1970
1971	---	---	0.042	31.7	26.6	6.71	8.30	6.89	2.78	1.82	---	---	10.6	1971
1972	---	---	4.34	23.0	18.6	6.75	5.89	---	---	---	---	---	---	1972
MEAN	---	---	0.584	17.1	16.4	7.17	4.48	2.76	2.38	1.52	---	---	6.35	MEAN

LOCATION - LAT 49 21 17 N DRAINAGE AREA, 4 970 km^2
LONG 98 49 04 W REGULATED

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	7.14 ON APR 24	0 B ON MAR 1 *	49 300	1962
1963	---	5.66 ON MAY 2	0 B ON MAR 1	48 700	1963
1964	---	9.91 ON MAY 7	0 B ON MAR 1	62 100	1964
1965	---	19.2 ON MAY 18	0 B ON MAR 1	108 000	1965
1966	---	16.5 ON APR 28	0 B ON MAR 1	88 200	1966
1967	---	16.7 ON MAY 7	0 B ON MAR 1	58 200	1967
1968	---	12.7 ON SEP 20	0 B ON MAR 1	61 700	1968
1969	---	289 ON APR 17 *	0 B ON MAR 1	385 000	1969
1970	---	44.2 ON MAY 12	0.028B ON MAR 1	250 000	1970
1971	---	65.1 ON APR 18	0.034B ON MAR 1	224 000	1971
1972	---	25.4 ON APR 16	0 B ON MAR 1	---	1972
				134 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	0.009	0.002	0.029	11.9	5.80	4.41	1.55	2.19	2.72	1.09	0.480	0.662	2.57	1962
1963	0.280	0	1.16	3.82	4.71	5.16	2.73	2.77	1.72	0.773	0.327	0.095	1.97	1963
1964	0.023	0	0	6.56	8.01	3.41	1.01	1.26	0.968	0.653	0.227	0.032	1.84	1964
1965	0	0	0	13.0	18.3	10.8	3.54	1.60	2.28	1.79	1.14	0.836	4.46	1965
1966	0.347	0.069	4.06	29.2	19.7	8.03	3.75	1.87	0.733	0.307	0.181	0.076	5.70	1966
1967	0.133	0.098	0.878	16.9	18.5	6.07	1.80	0.466	0.017	0.489	0.263	0.083	3.82	1967
1968	0.013	0	7.48	3.66	1.98	0.869	0.525	3.18	9.21	9.71	4.83	1.28	3.57	1968
1969	0.303	0.405	0.441	88.1	43.6	13.5	8.20	4.36	2.52	1.71	1.20	0.636	13.7	1969
1970	0.424	0.355	0.342	31.0	52.9	30.4	17.9	7.38	3.70	2.15	1.21	0.409	12.4	1970
1971	0.268	0.273	0.322	57.3	36.8	13.2	9.73	8.27	4.01	2.30	1.63	1.06	11.3	1971
1972	0.531	0.395	7.67	34.1	21.9	8.89	5.59	4.66	2.76	2.05	0.807	0.143	7.46	1972
1973	0.081	0.085	1.60	2.11	1.40	0.937	1.30	1.44	1.28	1.44	0.924	0.419	1.09	1973
1974	0.248	0.321	0.335	85.0	102	42.8	10.4	3.29	2.17	1.25	0.946	0.372	20.8	1974
1975	0.185	0.106	0.194	7.27	33.3	15.5	5.39	2.04	0.994	0.843	0.594	0.254	5.59	1975
1976	0.328	1.26	1.16	74.5	36.9	10.7	3.24	1.21	0.715	0.548	0.248	0.006	10.8	1976
1977	0	0	0.082	0.602	0.981	0.535	0.141	0.009	0.093	0.242	0.067	0.023	0.232	1977
1978	0.007	0	0.068	17.4	10.4	3.19	1.36	0.869	0.657	0.342	0.151	0.076	2.88	1978
1979	0.027	0.307	0.030	38.3	83.1	21.1	5.51	1.43	1.29	1.11	0.813	0.266	12.8	1979
1980	0.053	0.019	0.038	4.22	2.17	0.646	0.044	0.040	0.028	0.052	0.132	0.073	0.623	1980
1981	0	0.170	1.47	5.38	2.79	0.759	0.305	0.092	0.034	0.074	0.087	0.023	0.931	1981
1982	0	0	0.337	12.1	16.7	12.9	5.30	2.59	1.31	1.19	0.545	0.199	4.44	1982
MEAN	0.167	0.170	1.32	25.8	24.9	10.2	4.25	2.43	1.87	1.43	0.800	0.334	6.14	MEAN

LOCATION - LAT 49 01 53 N   DRAINAGE AREA, 7 510 km²   INTERNATIONAL GAUGING STATION
LONG 98 16 40 W   REGULATED

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	45.6 ON APR 21	0 B ON FEB 21 *	80 900	1962
1963	---	7.22 ON JUN 6	0 B ON JAN 29	62 100	1963
1964	---	9.15 ON MAY 10	0 B ON JAN 20	58 300	1964
1965	---	39.1 B ON APR 18	0 B ON JAN 1	141 000	1965
1966	---	48.1 B ON APR 3	0.045B ON NOV 30	180 000	1966
1967	53.5 AT 09:00 CST ON APR 21	49.0 ON APR 21	0 ON SEP 11	120 000	1967
1968	21.1 B AT 07:20 CST ON MAR 24	18.7 B ON MAR 24	0 B ON JAN 23	113 000	1968
1969	231 AT 16:06 CST ON APR 19	228 ON APR 19	0.385B ON MAR 5	433 000	1969
1970	108 AT 09:53 CST ON APR 28	104 ON APR 28	0.204B ON DEC 31	392 000	1970
1971	---	167 B ON APR 10	0.190B ON JAN 1	356 000	1971
1972	---	45.9 B ON APR 12	0.054B ON DEC 31	236 000	1972
1973	4.11 AT 17:19 CST ON AUG 8	2.94 ON JUL 12	0.028B ON JAN 8	34 400	1973
1974	326 AT 11:30 CST ON APR 26 *	317 ON APR 26 *	0.170B ON JAN 14	658 000	1974
1975	42.8 AT 14:30 CST ON MAY 14	42.2 ON MAY 14	0.068B ON FEB 5	176 000	1975
1976	119 AT 00:36 CST ON APR 17	116 ON APR 17	0 B ON DEC 7	343 000	1976
1977	4.33 AT 19:13 CST ON MAY 21	3.91 ON MAY 21	0 B ON JAN 1	7 320	1977
1978	---	30.9 B ON APR 9	0 B ON JAN 19	90 800	1978
1979	154 AT 17:58 CST ON MAY 2	152 ON MAY 2	0.002B ON FEB 12	404 000	1979
1980	---	9.25B ON APR 6	0 B ON DEC 26	19 700	1980
1981	14.9 AT 22:02 CST ON MAY 22	8.12 ON MAY 23	0 B ON JAN 1	29 300	1981
1982	54.5 AT 16:55 CST ON JUN 6	44.9 ON JUN 6	0 B ON JAN 1	140 000	1982
MEAN				194 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO. 05OA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	0.072	0.051	0.005	0	0.006	---	---	---	---	1921
1925	---	---	---	1.20	0.245	2.34	---	---	---	---	---	---	---	1925
1926	---	---	---	---	---	---	---	---	---	0.077	---	---	---	1926
1927	---	---	5.29	3.34	6.52	1.89	1.64	0.423	0.057	0.082	0.042	---	---	1927
1928	---	---	1.98	0.457	0.206	1.82	4.29	0.199	0.069	---	---	---	---	1928
MEAN	---	---	3.64	1.67	1.76	1.53	1.98	0.207	0.044	0.080	0.042	---	---	MEAN

LOCATION - LAT 49 13 45 N   DRAINAGE AREA, 420 km²
LONG 99 38 50 W   NATURAL FLOW

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO. 05OA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	0 E ON JUL 9 *	---	1921
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	22.6 ON MAY 13 *	0.003 ON SEP 23	---	1927
1928	---	19.7 ON JUL 10	---	---	1928
MEAN				---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

E - ESTIMATED

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	181	129	76.1	43.1	28.7	22.9	---	1957
1958	21.8	22.1	21.1	22.5	31.5	62.0	90.1	93.6	82.2	65.0	60.7	84.0	55.6	1958
1959	74.1	54.7	27.8	25.1	177	345	248	149	101	74.8	95.8	83.4	122	1959
1960	65.2	49.1	34.7	32.2	65.7	136	130	87.8	70.3	72.2	62.8	53.2	71.7	1960
1961	49.8	43.0	35.0	34.0	53.0	89.7	79.8	52.4	27.9	23.5	21.0	27.7	44.7	1961
1962	37.2	35.2	29.7	24.7	28.5	96.9	146	99.3	70.7	80.6	78.3	73.7	67.0	1962
1963	65.2	53.9	41.8	37.7	81.3	207	190	116	67.4	39.5	31.3	28.6	80.1	1963
1964	27.8	27.1	25.6	25.3	65.5	181	141	85.6	61.3	50.4	57.8	63.8	67.8	1964
1965	61.6	54.4	36.8	38.2	55.2R	161	195	133	102	96.6	97.8	89.0	93.2R	1965
1966	71.3	58.9	45.0R	44.0R	79.1R	190	236	180	105	59.9R	44.5R	44.6R	96.9R	1966
1967	45.9R	44.9R	39.5	42.7	71.5	176	215	125	66.3R	41.7R	32.3R	27.2R	77.6R	1967
1968	25.1R	29.6R	22.6R	29.6R	47.6R	103	225	224	196	198	183	153	120 R	1968
1969	109	79.0	56.4R	61.6R	80.7	169	182	218	230	295	262	181	161 R	1969
1970	117	69.9	52.1R	44.2R	53.6R	73.1R	138	107	80.9	66.2	74.2	106	82.1R	1970
1971	112	80.4	54.8	54.7	140	205	134	109	106	81.2	59.3R	53.5R	99.3R	1971
1972	55.4	54.3R	44.3R	52.3R	104	186	132	81.8	55.1R	50.2R	49.7R	64.2	77.4R	1972
1973	55.9	84.1	37.2	43.6	73.5	123	125	86.5	68.6	78.0	103	122	80.3	1973
1974	90.4	67.9	54.6R	56.0R	122	254	227	130	110	152	127	85.3	123 R	1974
1975	63.0	51.0R	41.0R	41.4R	66.4R	157	195	168	148	125	87.8	59.6R	100 R	1975
1976	47.6R	40.8R	34.5R	56.1R	74.1	93.1	77.1	47.6R	29.2R	19.3R	14.4R	11.5R	45.4R	1976
1977	10.3	10.1	11.2	14.4	16.4	35.3	55.8	54.5	118	176	141	95.5	61.7	1977
1978	64.9	43.7	32.3	36.6	61.3	106	158	191	187	181	132	94.8	108	1978
1979	73.4	56.7	43.9	54.0	135	300	199	108	88.6	70.1	76.3	74.0	107	1979
1980	70.4	55.8	42.2	44.9	57.2	90.3	89.3	61.6	61.2	48.2	42.4	47.5	59.3	1980
1981	45.1	37.5	30.6	34.0	40.0	61.1	111	101	74.8	62.6	68.5	78.8	62.3	1981
1982	72.1	57.7	44.3	54.0	111	216	207	144	94.5	74.4	53.8	45.3	98.0	1982
MEAN	61.2R	48.7R	37.6R	40.2R	75.6R	153 R	158	119 R	95.3R	89.7R	80.5R	71.8R	86.5	MEAN

LOCATION - LAT 52 01 49 N
LONG 96 23 37 W NATURAL FLOW

R - REVISED SINCE JAN 1980

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. 05RD008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	96.6 ON AUG 11	20.2 ON MAR 27	1 750 000	1958
1959	---	379 ON JUN 9 *	18.7 ON APR 9	3 840 000	1959
1960	---	155 ON JUN 23	27.5 ON APR 19	2 270 000	1960
1961	---	95.1 ON JUN 16	20.7 ON NOV 5	1 410 000	1961
1962	---	159 ON JUL 8	19.7 ON MAY 1	2 110 000	1962
1963	---	224 ON JUN 21	28.6 ON DEC 1	2 530 000	1963
1964	---	194 ON JUN 11	25.3 ON MAR 19	2 140 000	1964
1965	---	216 ON JUL 3	33.1 A ON MAR 20	2 940 000R	1965
1966	255 AT 16:30 CST ON JUL 4	250 ON JUL 4	37.6 R ON APR 11	3 060 000R	1966
1967	---	255 A ON JUL 1	25.8 R ON DEC 30	2 450 000R	1967
1968	---	238 ON JUL 21	20.4 R ON APR 6	3 790 000R	1968
1969	---	306 E ON OCT 17	43.9 R ON APR 7	5 070 000R	1969
1970	156 AT 07:46 CST ON JAN 1	153 ON JAN 1	39.2 R ON APR 13	2 590 000R	1970
1971	---	224 A ON JUN 3	45.6 E ON APR 6	3 130 000R	1971
1972	202 AT 15:23 CST ON JUN 13	200 ON JUN 13	16.1 R ON NOV 6	2 450 000R	1972
1973	151 AT 16:30 CST ON JUN 25	151 ON JUN 30	34.3 E ON APR 9	2 530 000	1973
1974	300 AT 11:30 CST ON JUN 25	297 ON JUN 23	41.5 R ON APR 15	3 890 000R	1974
1975	206 AT 12:14 CST ON JUN 30	206 ON JUN 30	35.0 R ON APR 12	3 170 000R	1975
1976	101 AT 21:10 CST ON JUN 27	100 ON JUN 28	10.9 R ON DEC 30	1 440 000R	1976
1977	182 AT 11:39 CST ON OCT 17	182 ON OCT 14	9.74 ON JAN 19 *	1 950 000	1977
1978	197 AT 00:42 CST ON AUG 8	197 ON AUG 7	28.3 B ON APR 7	3 400 000	1978
1979	318 AT 21:45 CST ON JUN 14 *	317 ON JUN 14	38.1 ON APR 13	3 390 000	1979
1980	101 AT 14:47 CST ON JUN 22	101 ON JUN 21	38.0 B ON APR 4	1 870 000	1980
1981	119 AT 21:44 CST ON JUL 30	119 ON JUL 31	28.3 ON MAR 25	1 960 000	1981
1982	---	251 E ON JUN 26	39.6 B ON APR 10	3 090 000	1982
MEAN				2 730 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

PILOT CREEK NEAR PILOT MOUND - STATION NO. 05OB025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0	0.031	0.007	0.085	0	0	0	0	---	---	0.015	1963
1964	---	---	0	0.421	0.028	0	0	0	0	0	---	---	0.055	1964
1965	---	---	0	0.584	0.122	0.008	0	0	0	0	---	---	0.088	1965
1966	---	---	0.451	0.824	0.253	0.014	0.034	0.003	0	0	---	---	0.196	1966
1967	---	---	0.004	0.601	0.311	0	0	0	0.052	0	---	---	0.120	1967
1968	---	---	0.194	0.109	0.017	0.007	0.029	0.285	0.330	0.075	---	---	0.131	1968
1969	---	---	0	4.65	0.520	0.409	0.332	0.003	0.021	0	---	---	0.731	1969
1970	---	---	0	1.69	1.05	0.336	0.041	0.002	0.026	0	---	---	0.390	1970
1971	---	---	0	1.30	0.312	0.152	0.250	0.013	0.159	0.057	---	---	0.277	1971
1972	---	---	0.549	1.11	0.426	0.066	0.012	0.016	0.003	0.001	---	---	0.271	1972
1973	---	---	0.015	0.006	0.011	0.003	0	0	0	0	---	---	0.004	1973
1974	---	---	0	3.75	2.62	0.389	0.017	0.001	0.001	0.001	---	---	0.841	1974
1975	---	---	0	0.410	0.203	0.044	0.004	0	0	0	---	---	0.082	1975
1976	---	---	0	2.19	0.178	0.003	0	0.001	0.002	0.004	---	---	0.291	1976
1977	---	---	0.001	0.002	0	0	0	0.002	0.002	0.001	---	---	0.001	1977
1978	---	---	0	0.430	0.042	0.001	0.001	0.001	0.001	0.001	---	---	0.059	1978
1979	---	---	0	2.56	0.886	0.038	0.003	0	0	0.001	---	---	0.434	1979
1980	---	---	0	0.050	0	0	0.005	0	0	0	---	---	0.007	1980
1981	---	---	0.119	0.004	0.002	0.009	0.003	0.004	0.003	0	---	---	0.018	1981
1982	---	---	0.033	0.295	0.013	0	0	0.010	0	0	---	---	0.043	1982
MEAN	---	---	0.068	1.05	0.350	0.078	0.037	0.017	0.030	0.007	---	---	0.203	MEAN

LOCATION - LAT 49 12 34 N DRAINAGE AREA, 147 km²
LONG 98 57 06 W REGULATED

PILOT CREEK NEAR PILOT MOUND - STATION NO. 05OB025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1963	---	0.374 ON JUN 6	0B ON MAR 1 *	319	1963
1964	---	0.748 ON APR 9	0B ON MAR 1	1 170	1964
1965	---	1.69 B ON APR 12	0B ON MAR 1	1 860	1965
1966	---	1.82 B ON APR 1	0B ON MAR 1	4 160	1966
1967	---	1.43 ON APR 21	0B ON MAR 1	2 540	1967
1968	---	1.70 ON AUG 24	0B ON MAR 1	2 760	1968
1969	---	15.0 B ON APR 11	0B ON MAR 1	15 500	1969
1970	---	3.94 ON APR 25	0B ON MAR 1	8 250	1970
1971	---	4.53 ON APR 8	0B ON MAR 1	5 860	1971
1972	---	2.28 ON APR 12	0B ON MAR 1	5 740	1972
1973	---	0.048 ON MAY 10	0B ON MAR 1	93.1	1973
1974	---	22.7 ON APR 21 *	0B ON MAR 1	17 800	1974
1975	---	1.29 ON APR 29	0B ON MAR 1	1 730	1975
1976	---	5.32 ON APR 6	0B ON MAR 1	6 170	1976
1977	---	0.024 ON AUG 9	0B ON MAR 1	21.8	1977
1978	---	1.72 B ON APR 6	0B ON MAR 1	1 240	1978
1979	---	14.3 ON APR 23	0B ON MAR 1	9 170	1979
1980	---	0.377B ON APR 7	0B ON MAR 1	143	1980
1981	---	0.524 ON MAR 17	0B ON MAR 1	386	1981
1982	1.85 AT 19:13 CST ON APR 12 *	1.47 ON APR 12	0B ON MAR 1	917	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 290	MEAN

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO. 05PF043

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1908	---	---	---	---	176	157	157	158	160	162	---	---	162	1908
1909	---	---	---	---	183	150	156	148	157	175	---	---	162	1909
1910	---	---	---	---	312	270	167	159	159	175	---	---	207	1910
1911	---	---	---	---	246	262	272	276	272	233	---	---	260	1911
1912	---	---	---	---	270	283	---	---	---	---	---	---	---	1912
1914	---	---	---	---	---	294	299	290	275	272	---	---	---	1914
1915	---	---	---	---	---	294	299	296	267	258	260	---	---	1915
MEAN	---	---	---	---	237	244	225	221	215	213	260	---	198	MEAN

LOCATION - LAT 50 09 45 N
LONG 95 52 05 W REGULATED

DATA CONTRIBUTED BY -
CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO. 05PF049

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1908	---	199 ON MAY 1	153 ON JUN 9	2 570 000	1908
1909	---	214 ON MAY 14	123 ON AUG 8 *	2 570 000	1909
1910	---	317 ON MAY 15 *	156 ON AUG 13	3 290 000	1910
1911	---	276 ON JUL 20	200 ON OCT 20	4 130 000	1911
1912	---	289 ON JUN 4	251 ON MAY 1	---	1912
1914	---	---	---	---	1914
1915	---	---	---	---	1915
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 140 000	MEAN

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05OD027

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	---	---	---	---	---	---	1953
1958	---	---	---	---	---	---	---	---	---	0.385	0.376	0.467	---	1958
1959	0.189	0.160	0.868	1.89	2.16	1.15	0.798	0.441	0.348	1.53	0.628	0.263	0.872	1959
1960	0.167	0.196	0.635	3.32	1.18	1.37	0.436	0.312	0.163	0.361	0.568	0.177	0.737	1960
1961	0.082	0.144	0.265	1.19	0.959	0.254	0.251	0.095	0.259	0.479	0.319	0.125	0.369	1961
1962	0.013	0.049	0.249	2.11	3.77	3.16	0.121	0.307	0.257	0.214	0.215	0.214	0.891	1962
1963	0.058	0.093	1.63	2.78	1.26	3.18	0.272	0.135	0.141	0.193	0.400	0.148	0.855	1963
1964	0.065	0.014	0.117	1.64	2.10	1.59	0.656	0.230	0.672	1.02	0.386	0.179	0.722	1964
1965	0.120	0.106	0.066	1.97	3.35	1.26	2.27	0.343	1.06	1.54	0.685	0.428	1.11	1965
1966	0.178	0.144	0.197	3.44	3.05	0.541	0.591	0.339	0.429	0.537	0.292	0.223	0.832	1966
1967	0.198	0.052	0.509	4.66	1.61	0.453	0.169	0.262	0.153	0.337	0.241	0.238	0.738	1967
1968	0.315	0.241	0.863	1.74	1.24	2.32	2.38	1.76	1.45	0.799	0.638	0.174	1.16	1968
1969	0.202	0.220	0.242	3.84	1.06	1.77	0.619	0.362	0.338	0.586	0.342	0.373	0.826	1969
1970	0.279	0.223	0.285	2.31	4.38	1.59	0.262	0.174	0.364	0.476	0.616	0.291	0.940	1970
1971	0.104	0.157	0.227	2.66	1.28	0.812	0.395	0.237	0.227	0.408	0.593	0.224	0.609	1971
1972	0.163	0.113	0.090	1.78	1.09	0.201	0.113	0.175	0.424	0.375	0.371	0.126	0.417	1972
1973	0.178	0.174	0.713	0.672	0.523	0.640	0.234	0.281	0.641	0.600	0.403	0.238	0.442	1973
1974	0.144	0.196	0.200	3.01	2.57	0.602	0.124	0.632	0.386	0.493	0.337	0.212	0.744	1974
1975	0.234	0.261	0.281	2.33	1.33	1.42	0.493	0.221	0.280	0.298	0.245	0.154	0.627	1975
1976	0.173	0.199	0.570	2.03	0.443	0.905	0.231	0.112	0.120	0.154	0.126	0.108	0.428	1976
1977	0.100	0.113	0.424	0.872	0.865	0.293	0.271	0.162	0.748	0.526	0.575	0.299	0.438	1977
1978	0.222	0.192	0.198	2.78	0.751	0.229	0.277	0.228	0.308	0.278	0.221	0.151	0.484	1978
1979	0.141	0.168	0.267	3.35	1.49	0.635	0.273	0.181	0.173	0.179	0.273	0.182	0.608	1979
1980	0.169	0.160	0.163	1.22	0.296	0.147	0.150	0.192	0.369	0.435	0.243	0.155	0.307	1980
1981	0.123	0.154	0.189	0.446	0.812	1.17	0.243	0.247	1.39	1.24	0.553	0.328	0.575	1981
1982	0.156	0.054	0.449	2.85	1.09	0.547	0.508	0.316	0.289	1.43	0.536	0.710	0.747	1982
MEAN	0.157	0.149	0.404	2.29	1.61	1.09	0.506	0.323	0.458	0.595	0.407	0.247	0.687	MEAN

LOCATION - LAT 49 01 25 N DRAINAGE AREA, 156 km²
LONG 95 58 40 W REGULATED

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05OD027

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1953	---	---	0.303RB ON DEC 8	---	1953
1958	---	---	---	---	1958
1959	---	4.45 ON MAY 7	0.042 ON JUL 31	27 500	1959
1960	---	13.3 ON APR 14	0.057B ON JAN 9	23 300	1960
1961	---	2.13 ON APR 24	0.028B ON JAN 28	11 600	1961
1962	---	10.4 ON JUN 10	0.008B ON JAN 28	28 100	1962
1963	---	7.39 ON JUN 9	0.023B ON JAN 31	27 000	1963
1964	---	4.98 ON MAY 10	0.006B ON FEB 19 *	22 800	1964
1965	---	11.4 ON MAY 6	0.042B ON MAR 25	34 900	1965
1966	---	10.3 ON APR 9	0.068 ON JUL 29	26 200	1966
1967	---	17.8 B ON APR 21 *	0.006B ON FEB 25	23 300	1967
1968	---	7.99 ON JUL 17	0.051B ON MAR 2	36 700	1968
1969	---	7.87B ON APR 9	0.176 ON AUG 23	26 100	1969
1970	---	9.85 ON MAY 27	0.102 ON AUG 15	29 600	1970
1971	---	9.06 ON APR 19	0.085B ON JAN 25	19 200	1971
1972	---	4.64 ON APR 21	0.025 ON AUG 30	13 200	1972
1973	---	2.52 ON SEP 25	0.037 ON JUL 22	13 900	1973
1974	9.09 AT 05:30 CST ON APR 21	8.89 ON APR 21	0.018 ON AUG 5	23 500	1974
1975	5.01 AT 05:50 CST ON APR 17	4.79 ON APR 17	0.144B ON DEC 5	19 800	1975
1976	3.74 AT 00:56 CST ON APR 7	3.45 ON APR 6	0.062 ON AUG 7	13 500	1976
1977	3.34 AT 06:13 CST ON SEP 25	3.11 ON SEP 25	0.099B ON JAN 9	13 800	1977
1978	6.51B AT 17:04 CST ON APR 9	6.03B ON APR 9	0.136B ON DEC 31	15 300	1978
1979	16.4 B AT 18:03 CST ON APR 19 *	14.3 B ON APR 19	0.119B ON JAN 14	19 200	1979
1980	2.59 AT 13:39 CST ON APR 7	2.44B ON APR 7	0.098 ON AUG 2	9 700	1980
1981	11.8 AT 01:28 CST ON SEP 8	11.1 ON SEP 8	0.118 ON AUG 20	18 100	1981
1982	8.30B AT 22:37 CST ON APR 15	7.28B ON APR 15	0.010B ON FEB 9	23 600	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980		21 700	MEAN

PINE CREEK NEAR MELBOURNE - STATION NO. 05LL014

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0.117	1.06	0.406	0.299	0.444	0.141	0.202	0.150	---	---	---	1965
1966	---	---	0.474	0.814	0.414	0.172	0.090	0.140	0.125	0.148	---	---	---	1966
1967	---	---	0.132	1.04	0.314	0.176	0.089	0.064	0.051	0.142	---	---	---	1967
1968	---	---	0.328	0.353	0.317	0.162	0.204	0.288	0.271	0.300	---	---	---	1968
1969	---	---	0.119	1.29	0.464	0.424	0.487	0.189	0.184	0.243	0.196	0.152	---	1969
1970	0.135	0.140	0.161	1.61	0.765	0.545	0.312	0.105	0.230	0.220	0.253	0.126	0.382	1970
1971	0.124	0.138	0.170	0.793	0.415	0.368	0.291	0.119	0.110	0.289	0.239	0.130	0.265	1971
1972	0.136	0.118	0.316	0.803	0.319	0.279	0.172	0.122	0.114	0.161	0.145	0.085	0.230	1972
1973	0.089	0.097	0.195	0.210	0.319	0.296	0.205	0.116	0.148	0.200	0.146	0.118	0.179	1973
1974	0.084	0.106	0.116	1.66	0.567	0.226	0.064	0.063	0.106	0.159	0.190	0.144	0.289	1974
1975	0.118	0.113	0.125	0.797	0.425	0.225	0.065	0.188	0.205	0.211	0.154	0.119	0.228	1975
1976	0.129	0.135	0.154	1.68	0.210	0.243	0.091	0.068	0.075	0.103	0.132	0.098	0.258	1976
1977	0.122	0.136	0.203	0.201	0.790	0.320	0.302	0.143	0.275	0.213	0.197	0.184	0.258	1977
1978	0.164	0.134	0.308	0.949	0.438	0.235	0.276	0.160	0.170	0.197	0.204	0.168	0.284	1978
1979	0.157	0.147	0.171	1.97	0.773	0.344	0.127	0.121	0.072	0.154	0.238	0.169	0.369	1979
1980	0.146	0.146	0.161	0.498	0.177	0.118	0.109	0.275	0.151	0.227	0.186	0.110	0.108	1980
1981	0.097	0.105	0.198	0.160	0.196	0.244	0.096	0.125	0.122	0.196	0.185	0.110	0.159	1981
1982	0.093	0.106	0.146	0.533	0.245	0.167	0.335	0.105	0.185	0.241	0.147	0.119	0.202	1982
MEAN	0.123	0.131	0.200	0.910	0.428	0.269	0.209	0.141	0.155	0.197	0.187	0.131	0.253	MEAN

LOCATION - LAT 49 54 00 N DRAINAGE AREA, 293 km²
LONG 99 12 30 W NATURAL FLOW

PINE CREEK NEAR MELBOURNE - STATION NO. 05LL014

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1965	---	4.11 B ON APR 14	---	---	1965
1966	---	3.14 ON APR 1	---	---	1966
1967	---	5.52 ON APR 10	---	---	1967
1968	---	1.57 ON MAR 26	---	---	1968
1969	---	5.66 E ON APR 13	---	---	1969
1970	13.2 AT 14:22 CST ON APR 26	9.94 ON APR 27	0.040 ON AUG 28	12 100	1970
1971	4.13 AT 23:49 CST ON APR 7	3.37 ON APR 8	0.074 ON AUG 29	8 370	1971
1972	3.14 AT 23:14 CST ON APR 10	2.76 ON APR 11	0.059 ON SEP 4	7 280	1972
1973	0.719 AT 02:59 CST ON MAY 7	0.697 ON MAY 7	0.059 ON JUL 23	5 630	1973
1974	10.9 AT 17:45 CST ON APR 18	9.66 ON APR 19	0.024 ON AUG 18 *	9 120	1974
1975	3.79 AT 15:10 CST ON APR 15	2.97 ON APR 15	0.028 ON JUL 15	7 200	1975
1976	10.6 AT 18:18 CST ON APR 7	8.58 ON APR 8	0.045 ON AUG 7	8 150	1976
1977	6.12 AT 20:15 CST ON MAY 19	3.88 ON MAY 20	0.057 ON AUG 24	8 150	1977
1978	6.29 AT 12:07 CST ON APR 7	3.54 ON APR 7	0.096 ON AUG 23	8 940	1978
1979	20.1 AT 16:20 CST ON APR 21 *	14.4 ON APR 21 *	0.036A ON AUG 31	11 600	1979
1980	1.31 AT 11:05 CST ON APR 7	1.10 ON AUG 21	0.066 ON AUG 2	5 940	1980
1981	0.670 AT 08:15 CST ON JUN 25	0.512 ON JUN 25	0.068 ON JUL 21	5 020	1981
1982	1.79 AT 10:51 CST ON APR 17	1.37 ON APR 15	0.044 ON AUG 6	6 370	1982
				7 990	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK - STATION NO. 05OD032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	0.781	0.431	0.423	0.629	0.290	---	1928
1929	0.142	0.085	0.544	1.46	1.05	0.803	0.331	0.179	0.277	0.399	0.572	---	---	1929
1930	---	---	---	2.32	3.13	1.24	1.71	0.147	0.195	0.412	0.916	---	---	1930
1931	---	---	---	2.01	1.20	0.402	0.249	0.273	0.398	0.517	0.812	---	---	1931
1932	---	---	---	2.77	1.39	0.409	0.482	0.314	0.334	0.852	---	---	---	1932
1933	---	---	---	3.34	2.58	0.826	0.155	0.111	0.157	0.173	0.254	---	---	1933
1934	---	---	---	0.980	0.504	0.522	0.153	0.129	0.157	0.456	---	---	---	1934
1935	---	---	---	1.90	1.09	0.562	0.726	0.333	0.315	0.317	---	---	---	1935
1936	---	---	---	3.01	0.961	0.622	0.132	0.089	0.247	0.198	0.178	0.100	---	1936
1937	---	---	---	2.70	2.49	0.470	1.16	0.501	0.245	0.304	---	---	---	1937
1938	---	---	0.617	1.62	3.23	0.611	0.227	0.157	0.112	0.171	0.172	---	---	1938
1939	---	---	---	0.528	0.636	0.530	0.127	0.128	0.141	0.202	0.204	---	---	1939
1940	---	---	---	0.640	0.739	0.603	0.204	0.142	0.231	0.302	0.761	0.247	---	1940
1941	0.169	0.151	0.187	2.65	0.595	1.30	0.209	0.168	4.45	1.71	0.384	0.215	1.01	1941
1942	0.062	0.166	1.56	2.23	2.32	0.691	0.276	0.799	2.07	0.559	0.372	0.197	0.943	1942
1943	0.166	0.197	0.159	3.34	2.53	3.33	0.727	0.296	0.372	0.356	0.392	0.175	1.00	1943
1944	0.146	0.166	0.170	1.74	1.45	2.84	0.504	1.68	1.11	0.579	1.52	0.322	1.02	1944
1945	0.226	0.208	3.15	2.31	1.73	0.807	1.59	0.839	3.17	0.791	0.438	0.228	1.29	1945
1946	0.223	0.212	1.86	1.52	1.27	0.471	0.821	0.175	0.406	0.608	0.399	0.246	0.688	1946
1947	0.246	0.250	0.275	1.37	1.56	3.33	0.303	0.605	1.02	1.31	0.486	0.313	0.921	1947
1948	0.271	0.238	0.310	4.81	1.45	0.678	1.22	1.34	0.225	0.250	0.394	0.296	0.955	1948
1949	0.286	0.246	0.294	3.24	1.47	0.542	0.457	0.471	0.256	1.02	0.775	0.306	0.780	1949
1950	0.243	0.245	0.314	3.95	6.19	2.13	1.61	0.414	2.43	1.65	0.548	0.308	1.67	1950
1951	0.263	0.230	0.209	3.23	1.80	0.455	0.222	0.709	0.830	0.626	0.312	0.202	0.757	1951
1952	0.152	0.146	0.194	0.951	0.669	0.693	0.835	0.238	0.155	0.240	0.325	0.217	0.401	1952
1953	0.192	0.191	0.396	1.03	1.53	1.33	0.137	0.028	0.106	---	---	---	---	1953
MEAN	0.199	0.195	0.683	2.23	1.74	1.05	0.583	0.425	0.763	0.577	0.516	0.244	0.953	MEAN

LOCATION - LAT 48 59 35 N DRAINAGE AREA, 215 km² INTERNATIONAL GAUGING STATION
LONG 95 55 04 W NATURAL FLOW

PINE CREEK NEAR PINE CREEK - STATION NO. 05OD032

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	3.26B ON APR 8	---	---	1929
1930	---	12.7 ON MAY 13	---	---	1930
1931	6.48 AT 21:30 CST ON APR 7	6.00 ON APR 7	---	---	1931
1932	7.25B AT 23:00 CST ON APR 10	6.99B ON APR 10	---	---	1932
1933	14.2 AT 12:00 CST ON MAY 25	13.0 ON MAY 25	---	---	1933
1934	---	1.98B ON APR 8	---	---	1934
1935	4.08 AT 17:30 CST ON APR 27	3.85 ON APR 27	---	---	1935
1936	14.6 AT 13:00 CST ON APR 17	12.7 ON APR 17	---	---	1936
1937	13.8 AT 23:00 CST ON MAY 1	13.1 ON MAY 1	---	---	1937
1938	10.3 AT 11:00 CST ON MAY 10	10.0 ON MAY 10	---	---	1938
1939	1.39 AT 18:00 CST ON APR 27	1.36 ON APR 27	---	---	1939
1940	1.67 ON MAY 1	1.56 ON APR 30	---	---	1940
1941	20.0 AT 12:00 CST ON SEP 25 *	18.8 ON SEP 25 *	0.031B ON DEC 31	31 800	1941
1942	13.1 AT 20:00 CST ON APR 29	11.6 ON APR 30	0 B ON JAN 5 *	29 700	1942
1943	11.3 AT 01:00 CST ON APR 9	11.0 ON APR 9	0.125B ON MAR 16	31 500	1943
1944	7.73 AT 07:00 CST ON JUN 8	7.50 ON JUN 8	0.125B ON JAN 5	32 100	1944
1945	15.1 AT 04:00 CST ON MAR 28	14.2 ON MAR 28	0.198B ON JAN 29	40 800	1945
1946	---	7.50E ON MAR 22	0.139 ON AUG 6	21 700	1946
1947	16.7 AT 15:00 CST ON JUN 11	14.4 ON JUN 11	0.215 ON JUL 23	29 000	1947
1948	---	16.7 ON APR 19	0.201 ON SEP 29	30 200	1948
1949	10.9 AT 20:00 CST ON APR 10	9.06 ON APR 10	0.170 ON OCT 4	24 600	1949
1950	17.9 AT 04:00 CST ON APR 24	14.3 ON APR 24	0.227B ON JAN 23	52 800	1950
1951	7.70E ON APR 6	7.36E ON APR 7	0.139 ON JUL 26	23 900	1951
1952	2.78 AT 13:00 CST ON JUL 5	2.72 ON JUL 5	0.130 ON SEP 21	12 700	1952
1953	3.65 AT 20:00 CST ON MAY 13	3.45 ON MAY 13	0 ON AUG 19	---	1953
				30 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.783	2.58	1.75	0.734	0.450	0.301	0.625	1.47	---	---	1.46	1959
1960	---	---	0.142	8.56	1.65	0.931	0.443	0.440	0.376	0.501	---	---	2.79	1960
1961	---	---	0.972	2.28	1.72	0.524	0.301	0.126	0.348	0.469	---	---	1.38	1961
1962	---	---	0.116	3.57	1.60	1.45	0.454	0.365	0.33[illegible]	0.513	---	---	1.67	1962
1963	---	---	1.23	1.94	1.20	2.38	0.980	0.425	0.373	0.497	---	---	1.68	1963
1964	---	---	0.142	2.84	1.45	1.16	0.768	0.392	0.611	0.568	---	---	1.39	1964
1965	---	---	0.335	5.81	1.79	1.41	0.955	0.401	1.04	0.703	---	---	2.32	1965
1966	---	---	0.668	3.20	1.84	0.805	0.515	0.762	0.740	0.650	---	---	1.62	1966
1967	---	---	0.107	4.05	1.29	0.673	0.404	0.240	0.153	0.692	---	---	1.52	1967
1968	---	---	1.14	2.00	1.19	0.497	0.552	1.17	0.829	0.679	---	---	1.20	1968
1969	---	---	0.012	5.18	1.76	1.14	2.19	0.633	0.433	0.782	---	---	2.00	1969
1970	---	---	0.391	7.21	4.65	1.48	1.32	0.526	0.990	0.723	---	---	3.42	1970
1971	---	---	0.544	4.44	1.89	1.67	1.17	0.383	0.328	1.22	---	---	2.12	1971
1972	---	---	1.00	3.15	1.67	1.37	0.611	0.620	0.380	0.441	---	---	1.79	1972
1973	---	---	0.540	0.663	1.60	1.22	0.845	0.676	0.569	0.721	---	---	1.01	1973
1974	---	---	0.011	6.96	4.00	0.867	0.237	0.137	0.476	0.465	---	---	2.94	1974
1975	---	---	0.473	3.48	2.32	0.963	0.381	1.35	1.73	0.796	---	---	1.80	1975
1976	---	---	0.584	8.50	0.956	0.841	0.281	0.152	0.218	0.775	---	---	2.69	1976
1977	---	---	0.661	1.28	2.30	1.11	0.804	0.565	1.26	0.857	---	---	1.34	1977
1978	---	---	0.388	3.50	1.67	1.16	---	---	---	---	---	---	1.67	1978
1979	---	---	0.463	8.14	4.44	1.45	---	---	---	---	---	---	3.60	1979
1980	---	---	0.442	1.94	0.852	0.388	---	---	---	---	---	---	0.901	1980
1981	---	0.276	0.707	0.869	0.953	0.988	---	---	---	---	---	---	0.878	1981
1982	---	---	0.507	3.01	1.22	0.800	---	---	---	---	---	---	1.38	1982
MEAN	---	0.276	0.515	3.96	1.91	1.08	0.719	0.509	0.619	0.712	---	---	1.86	MEAN

LOCATION - LAT 50 03 40 N LONG 98 56 49 W
DRAINAGE AREA, 635 km^2
NATURAL FLOW

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	7.16B ON MAR 30	0.113B ON MAR 1	15 400	1959
1960	---	32.3 ON APR 12	0.142B ON MAR 1	29 400	1960
1961	---	3.65 ON APR 23	0.283B ON MAR 1	14 500	1961
1962	---	13.1 ON APR 20	0.113B ON MAR 1	17 600	1962
1963	---	6.26 ON JUN 11	0.170B ON MAR 1	17 700	1963
1964	---	6.57B ON APR 14	0.142B ON MAR 1	14 600	1964
1965	---	43.6 ON APR 14	0.283B ON MAR 1	24 500	1965
1966	---	10.6 B ON APR 1	0.210B ON MAR 1	17 100	1966
1967	---	8.98B ON APR 15	0.088B ON MAR 1	16 000	1967
1968	---	5.52B ON MAR 28	0.292 ON JUN 28	12 700	1968
1969	---	29.7 ON APR 14	0.004B ON MAR 28	21 100	1969
1970	---	40.5 ON APR 28	0.391B ON MAR 1	36 000	1970
1971	---	13.3 ON APR 10	0.544B ON MAR 1	22 400	1971
1972	---	6.43B ON APR 12	0 B ON MAR 1 *	18 800	1972
1973	---	3.85 ON MAY 7	0.028B ON MAR 1	10 600	1973
1974	---	26.1 ON APR 20	0.011B ON MAR 1	31 000	1974
1975	---	10.5 B ON APR 16	0.473B ON MAR 1	19 000	1975
1976	---	21.5 B ON APR 8	0.368 ON JUN 4	28 300	1976
1977	---	5.80 ON MAY 22	0.215 ON JUN 11	14 100	1977
1978	---	7.08B ON APR 11	0.314B ON MAR 1	17 600	1978
1979	---	44.3 B ON APR 22 *	0.428B ON MAR 1	38 000	1979
1980	---	3.23B ON APR 8	0.247 ON JUN 21	9 490	1980
1981	1.57 AT 10:10 CST ON JUN 17 *	1.37 ON JUN 19	0.526B ON MAR 8	9 250	1981
1982	---	7.80B ON APR 15	0.425B ON MAR 1	14 500	1982
				19 600	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.582	6.18	9.13	2.32	0.969	2.08	1.65	---	---	---	1954
1955	---	---	---	1.54	3.56	1.43	0.315	0.020	0.074	0.143	---	---	---	1955
1956	---	---	---	0.062	3.32	2.94	1.86	0.204	0.326	0.311	---	---	---	1956
1957	---	---	0	1.36	3.54	0.457	0.177	0.062	0.169	0.282	---	---	0.757	1957
1958	---	---	0.100	0.603	0.390	0.228	1.76	0.269	1.14	0.728	---	---	0.652	1958
1959	---	---	0.206	0.614	1.67	3.80	1.33	0.145	2.63	1.68	---	---	1.50	1959
1960	---	---	0.026	1.38	5.29	3.02	0.782	0.268	0.185	0.260	---	---	1.40	1960
1961	---	---	0.029	0.127	0.315	0.072	0.013	0.004	0.014	0.109	---	---	0.085	1961
1962	---	---	0.029	0.461	0.622	0.446	0.154	0.126	0.379	0.237	---	---	0.305	1962
1963	---	---	0.024	1.11	2.35	2.03	0.441	0.051	0.095	0.104	---	---	0.772	1963
1964	---	---	0.177	0.578	1.45	0.131	0.061	0.053	0.062	0.109	---	---	0.328	1964
1965	---	---	0.087	0.541	4.29	1.73	1.16	1.72	1.86	0.587	---	---	1.50	1965
1966	---	---	0.157	0.614	4.83	3.81	1.61	0.781	0.078	0.167	---	---	1.51	1966
1967	---	---	0.234	0.975	5.22	2.08	0.621	1.01	0.197	0.496	---	---	1.36	1967
1968	---	---	0.145	0.584	1.58	1.38	1.49	2.50	0.604	0.438	---	---	1.09	1968
1969	---	---	0.181	2.10	1.65	1.30	1.85	0.805	1.09	2.80	---	---	1.47	1969
1970	---	---	0.317	1.21	7.07	2.69	4.31	1.28	0.984	2.18	---	---	2.52	1970
1971	---	---	0.198	3.22	1.96	2.91	2.15	0.745	0.213	1.60	---	---	1.62	1971
1972	---	---	0.152	2.03	4.86	1.23	0.870	0.215	0.154	0.195	---	---	1.21	1972
1973	---	---	0.067	0.433	1.75	5.37	2.46	0.639	1.88	0.725	---	---	1.65	1973
1974	---	---	0.226	3.10	7.52	2.74	0.813	0.660	1.75	0.970	---	---	2.22	1974
1975	---	---	0.122	1.40	5.72	3.76	0.861	0.411	1.81	1.66	---	---	1.96	1975
1976	---	---	0.176	3.49	2.04	6.70	1.51	0.673	0.201	0.174	---	---	1.85	1976
1977	---	---	0.100	1.09	1.29	0.295	1.67	1.02	3.58	2.13	---	---	1.39	1977
1978	---	---	0.114	0.922	1.41	1.43	0.455	0.110	0.546	0.662	---	---	0.702	1978
1979	---	---	0.149	0.581	8.64	3.23	0.575	0.458	0.479	0.475	---	---	1.83	1979
1980	---	---	0.252	1.94	0.569	0.319	0.264	2.45	0.480	0.545	---	---	0.851	1980
1981	---	---	0.353	0.511	0.785	2.54	0.518	0.238	0.150	0.503	---	---	0.696	1981
1982	---	---	0.033	0.761	0.955	0.402	2.62	0.741	0.389	1.25	---	---	0.898	1982
MEAN	---	---	0.141	1.17	3.13	2.33	1.21	0.642	0.814	0.799	---	---	1.28	MEAN

LOCATION - LAT 51 49 00 N   DRAINAGE AREA, 210 km^2
LONG 100 32 00 W   NATURAL FLOW

PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	24.1 ON MAY 28	0 B ON APR 1 *	---	1954
1955	---	13.6 ON MAY 4	0 ON AUG 12	---	1955
1956	---	9.03 ON JUN 26	0 B ON APR 1	---	1956
1957	---	12.6 ON MAY 1	0 B ON MAR 1	16 000	1957
1958	13.6 AT 09:00 CST ON JUL 6	10.7 ON JUL 7	0 B ON MAR 1	13 800	1958
1959	19.8 AT 19:00 CST ON JUN 27	16.8 ON JUN 28	0 B ON MAR 22	31 800	1959
1960	13.1 AT 21:00 CST ON MAY 13	12.4 ON MAY 13	0 B ON MAR 1	29 700	1960
1961	---	0.450 ON MAY 7	0 B ON MAR 1	1 810	1961
1962	1.89 AT 00:25 CST ON MAY 31	1.66 ON MAY 31	0 B ON MAR 1	6 460	1962
1963	9.12 AT 20:30 CST ON MAY 13	7.99 ON MAY 14	0 B ON MAR 1	16 300	1963
1964	5.38 AT 18:40 CST ON MAY 8	4.84 ON MAY 9	0.020 ON JUL 27	6 940	1964
1965	19.3 AT 12:15 CST ON MAY 7	18.0 ON MAY 7	0.071B ON MAR 1	31 700	1965
1966	13.5 AT 11:30 CST ON MAY 19	12.7 ON MAY 19	0.031 ON SEP 23	31 800	1966
1967	11.6 B AT 02:00 CST ON MAY 7	9.46 B ON MAY 7	0.099 ON SEP 7	28 700	1967
1968	8.30 AT 08:05 CST ON AUG 20	7.79 ON AUG 20	0.110B ON MAR 1	23 100	1968
1969	14.5 AT 02:01 CST ON OCT 4	12.2 ON OCT 4	0.181B ON MAR 1	31 200	1969
1970	25.7 AT 19:10 CST ON JUL 24	19.8 ON JUL 25	0.317B ON MAR 1	53 200	1970
1971	12.5 AT 02:30 CST ON JUN 6	11.4 ON JUN 6	0.164 ON SEP 12	38 300	1971
1972	11.8 AT 01:30 CST ON APR 30	10.6 ON APR 30	0.122 ON AUG 27	25 700	1972
1973	26.4 AT 20:56 CST ON JUN 19 *	24.9 ON JUN 20 *	0.025B ON MAR 1	35 000	1973
1974	20.5 AT 00:06 CST ON MAY 22	18.0 ON MAY 22	0.198B ON MAR 30	46 900	1974
1975	13.1 AT 04:23 CST ON MAY 9	12.3 ON MAY 8	0.122B ON MAR 1	41 600	1975
1976	26.2 AT 04:49 CST ON JUN 14	24.9 ON JUN 14	0.133 ON SEP 23	39 200	1976
1977	10.8 AT 05:11 CST ON SEP 26	10.1 ON SEP 26	0.079B ON MAR 1	29 500	1977
1978	3.65 AT 22:00 CST ON APR 27	3.23 ON APR 28	0.048 ON AUG 12	14 900	1978
1979	25.3 AT 01:39 CST ON MAY 26	23.8 ON MAY 26	0.133B ON MAR 1	38 700	1979
1980	9.37 AT 11:45 CST ON AUG 8	8.58 ON AUG 8	0.113 ON JUL 31	18 000	1980
1981	8.64 AT 11:36 CST ON JUN 18	7.50 ON JUN 18	0.075 ON SEP 11	14 700	1981
1982	21.6 AT 14:29 CST ON JUL 17	16.0 ON JUL 18	0.020B ON MAR 1	19 000	1982
				26 200	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05NG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	3.25	0.528	---	---	---	---	---	---	---	1936
1943	---	---	---	23.0	1.73	1.24	0.387	0.104	0.058	0.096	---	---	---	1943
1944	---	---	0	0.480	0.247	0.657	0.801	0.171	0.160	0.097	---	---	---	1944
1945	---	---	1.35	1.02	0.523	0.612	0.917	0.150	0.030	0.107	---	---	---	1945
1946	---	---	---	7.89	0.758	0.335	2.52	0.161	0.036	0.328	---	---	---	1946
1947	---	---	0	14.7	2.55	7.71	3.81	0.564	0.318	0.244	---	---	---	1947
1948	---	---	---	---	10.2	1.61	0.963	0.560	0.188	---	---	---	---	1948
1949	---	---	0	7.85	0.761	2.52	0.400	0.408	0.051	0.222	---	---	---	1949
1950	---	---	0.668	11.3	5.90	2.58	3.29	3.32	0.574	0.386	---	---	---	1950
1951	---	---	0	11.6	8.77	0.928	0.667	0.238	0.248	0.561	---	---	---	1951
1952	---	---	0.269	6.73	0.983	0.486	0.515	0.136	0.879	0.165	---	---	---	1952
1953	---	---	---	8.10	1.61	12.0	4.32	0.765	0.121	0.317	---	---	---	1953
1954	---	---	0	3.50	2.47	14.8	24.0	2.44	2.49	4.63	2.71	---	---	1954
1955	---	---	---	23.9	30.8 R	16.5	7.64	1.07	1.25	0.143	---	---	---	1955
1956	---	---	---	17.5	7.18	1.96	2.06	0.747	0.223	1.51	1.37	1.06	---	1956
1957	1.02	1.02	1.55	5.34	2.33	0.771	0.425	0.170	3.00	1.78	0.335	0.069	1.48	1957
1958	0.005	0.001	1.11	6.52	0.896	0.072	0.110	0.027	0.020	0.580	0.254	0	0.796	1958
1959	0	0	0.634	0.546	0.133	0.045	0.023	0.005	0.252	0.115	0.111	0.045	0.159	1959
1960	0	0	0.011	6.91	0.636	0.367	0.144	0.116	0.133	1.05	0.373	0.113	0.813	1960
1961	0.048	0.047	0.407	0.721	0.236	0.073	0.022	0.003	0.002	0.005	0.039	0.058	0.138	1961
1962	0.055	0.057	0.058	0.882	0.076	0.427	0.090	0.226	0.007	0	0	0	0.155	1962
1963	0 R	0	1.29	0.597	0.405	0.996	0.899	0.469	0.251	0.260	0.442	0.320	0.497R	1963
1964	0.245	0.096	0.037	6.03	2.96	0.796	0.210	0.200	0.486	0.763	0.422	0.125	1.03	1964
1965	0.083	0.082	0.117	8.18	0.612	0.916	2.22	0.295	1.25	1.14	0.436	0.383	1.30	1965
1966	0.178	0.024	0.792	7.19	1.95	0.944	0.320	0.238	0.306	0.393	0.283	0.421	1.08	1966
1967	0.478	0.505	0.804	6.29	2.23	0.170	0.064	0.017	0.016	0.077	0.033	0.040	0.889	1967
1968	0.162	0.166	2.59	1.32	0.183	0.015	0.004	0.034	0.076R	0.054	0.050	0.088	0.396R	1968
1969	0	0	0	20.0 R	2.29	0.835	2.93	0.553	0.135	0.304	1.22	0.339	2.37 R	1969
1970	0.155	0.419	0.495	10.6	10.1	1.53	0.833	0.442	0.647	0.585	0.543	0.387	2.23	1970
1971	0.351	0.207	0.303	4.87	0.935	0.722	0.638	0.110	0.901	0.777	0.301	0.163	0.852	1971
1972	0.097	0.079	5.17	7.27	1.06	0.593	0.158	0.229	0.362	0.552	0.300	0.062	1.33	1972
1973	0.023	0.049	0.376	0.429	0.327	0.069	0.142	0.102	0.331	0.721	0.246	0.179	0.251	1973
1974	0.108	0.122	0.150	23.8	9.99	2.42	0.610	0.134	0.062	0.486	0.428	0.271	3.20	1974
1975	0.189	0.037	0.009	9.06	15.5	4.10	0.670	0.436	4.59	3.75	1.78	0.606	3.41	1975
1976	0.456	0.607	0.556	66.1	9.10	10.4	2.47	0.466	1.8[illegible]	1.64	0.473	0.313	7.78	1976
1977	0.253	0.220	0.325	0.928	0.276	0.093	0.059	0.019	0.069	0.123	0.056	0.062	0.206	1977
1978	0.044	0.037	0.090	3.87	0.491	0.116	0.214	0.026	0.151	0.287	0.082	0.032	0.450	1978
1979	0.012	0.010	0.009	8.81	8.21	0.956	0.340	0.059	0.024	0.405	0.137	0.042	1.59	1979
1980	0.012	0.008	0.034	3.35	0.148	0.040	0.248	0.031	0.010	0.043	0.268	0.077	0.351	1980
1981	0.064	0.056	1.02	0.321	0.045	0.015	0.002	0.002	0.001	0.003	0.006	0.003	0.129	1981
1982	0	0	0.013	8.29	0.967	0.100	0.010	0.005	0.008	0.311	0.031	0.032	0.806	1982
MEAN	0.155R	0.148	0.595	9.12 R	3.65 R	2.25	1.65	0.381	0.540R	0.641	0.455	0.197	1.30	MEAN

LOCATION - LAT 49 35 40 N   DRAINAGE AREA, 4 200 km^2
LONG 100 56 30 W   REGULATED

R - REVISED SINCE JAN 1980

REMARKS - SOME FLOW WILL BYPASS THE GAUGE AT VERY HIGH STAGES. DATA PRIOR TO 1958 WERE PUBLISHED UNDER STATION NO. 05NG006

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05NG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1943	---	56.4 ON APR 10	---	---	1943
1944	---	2.94 ON JUN 29	0 B ON MAR 1 *	---	1944
1945	---	4.08 B ON MAR 23	---	---	1945
1946	---	28.2 B ON APR 1	0 ON SEP 21	---	1946
1947	---	36.2 ON JUN 27	0 B ON MAR 1	---	1947
1948	---	37.1 ON APR 23	---	---	1948
1949	---	26.1 ON APR 12	0 B ON MAR 1	---	1949
1950	---	32.3 ON APR 20	---	---	1950
1951	---	30.0 ON MAY 7	0 B ON MAR 1	---	1951
1952	---	18.0 ON APR 10	---	---	1952
1953	---	32.0 ON JUN 10	0 ON SEP 20	---	1953
1954	---	64.0 ON JUL 11	---	---	1954
1955	---	74.2 R ON MAY 7	---	---	1955
1956	---	44.2 ON APR 19	---	---	1956
1957	---	8.27 B ON APR 8	0 ON AUG 18	46 700	1957
1958	---	20.1 B ON APR 5	0 B ON JAN 7	25 100	1958
1959	---	2.94 ON SEP 7	0 B ON JAN 1	5 040	1959
1960	---	20.9 B ON APR 14	0 B ON JAN 1	25 700	1960
1961	---	0.968B ON APR 11	0 ON AUG 18	4 360	1961
1962	---	4.16 ON AUG 11	0 ON OCT 1	4 910	1962
1963	---	9.51 B ON MAR 23	0 B ON JAN 1	15 700R	1963
1964	---	19.3 B ON APR 16	0.023 ON AUG 6	32 400	1964
1965	---	25.8 ON APR 19	0.051 ON AUG 22	41 100	1965
1966	---	24.1 B ON APR 6	0 B ON MAR 2	34 100	1966
1967	---	23.0 B ON APR 15	0.006 ON AUG 30	28 000	1967
1968	---	6.94 B ON MAR 26	0 ON JUN 20	12 500R	1968
1969	---	113 A ON APR 15	0 B ON JAN 1	74 800R	1969
1970	---	29.7 A ON MAY 1	0.091B ON JAN 13	70 400	1970
1971	---	15.8 B ON APR 12	0.008 ON AUG 27	26 900	1971
1972	---	20.4 B ON MAR 25	0.028B ON DEC 31	41 900	1972
1973	2.01 AT 21:40 CST ON OCT 21	1.89 ON SEP 27	0.014B ON JAN 10	7 910	1973
1974	74.2 AT 08:00 CST ON APR 23 *	73.1 ON APR 23	0.040 ON SEP 25	101 000	1974
1975	55.2 AT 15:22 CST ON APR 30	54.1 ON APR 30	0 ON SEP 17	107 000	1975
1976	---	153 B ON APR 12 *	0.232 ON AUG 23	246 000	1976
1977	1.57 AT 08:45 CST ON APR 16	1.50 ON APR 16	0.004 ON AUG 29	6 500	1977
1978	---	8.75 B ON APR 13	0.017 ON SEP 3	14 200	1978
1979	51.2 B AT 08:17 CST ON APR 28	47.9 B ON APR 28	0.005B ON APR 7	50 000	1979
1980	---	10.4 B ON APR 13	0.006 ON SEP 16	11 100	1980
1981	---	1.87 B ON MAR 16	0 ON AUG 11	4 060	1981
1982	37.6 AT 12:14 CST ON APR 18	34.6 ON APR 18	0 B ON JAN 1	25 400	1982
				40 900R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05NG024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	---	0.002	0.400	0.033	0.088	---	1982
MEAN	---	---	---	---	---	---	---	---	0.002	0.400	0.033	0.088	---	MEAN

LOCATION - LAT 49 50 28 N   DRAINAGE AREA, 3 860 km^2
LONG 101 23 48 W   REGULATED

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05NG024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	---	0B ON MAR 2 *	---	1982
				---	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.572	0.335	0.004	0	0	0	0.024	---	---	0.116	1964
1965	---	---	0	1.04	0.390	0.200	0.030	0.011	0.161	0.133	---	---	0.246	1965
1966	---	---	0.099	1.69	1.49	0.105	0.163	0.006	0.004	0.002	---	---	0.477	1966
1967	---	---	0	0.982	1.39	0.072	0.004	0.001	0	0.030	---	---	0.310	1967
1968	---	---	0.421	0.060	0.000	0.012	0.023	0.032	0.011	0.006	---	---	0.100	1968
1969	---	---	0	2.40	0.175	0.040	0.540	0.383	0.023	0.229	---	---	0.470	1969
1970	---	---	0.010	2.33	3.01	0.419	0.001	0.200	0.010	0.007	---	---	0.800	1970
1971	---	---	0.040	2.26	0.331	1.07	0.601	0.160	0	0.021	---	---	0.661	1971
1972	---	---	0.004	0.992	0.941	0.246	0.115	0.403	0.611	0.291	---	---	0.453	1972
1973	---	---	0.037	0.031	0.099	0.025	0.004	0.002	0.026	0.054	---	---	0.024	1973
1974	---	---	0	0.547	4.03	2.53	0.156	0.011	0.014	0.020	---	---	1.01	1974
1975	---	---	0.252	1.39	2.07	1.20	0.164	0.060	0.769	0.620	---	---	0.812	1975
1976	---	---	0.218	2.77	1.34	1.51	0.612	0.270	0.363	0.030	---	---	0.803	1976
1977	---	---	0.099	0.050	0.049	0.006	0.011	0.003	0.023	0.970	---	---	0.153	1977
1978	---	---	0.210	0.024	0.503	0.167	0.159	0.079	0.007	0.006	---	---	0.208	1978
1979	---	---	0.008	1.92	3.47	1.27	0.067	0.020	0.001	0.060	---	---	0.055	1979
1980	---	---	0.104	0.348	0.007	0.024	0	0.132	0.002	0.139	---	---	0.104	1980
1981	---	---	0.259	0.116	0.015	0.007	0.171	0	0.003	0.199	---	---	0.102	1981
1982	---	---	0.160	0.245	0.010	0.002	0	0.002	0.055	0.293	---	---	0.097	1982
MEAN	---	---	0.110	1.14	1.00	0.516	0.175	0.094	0.112	0.170	---	---	0.422	MEAN

LOCATION - LAT 51 06 16 N DRAINAGE AREA, 262 km²
LONG 100 52 57 W REGULATED SINCE 1972

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	1.92 B ON APR 15	0 B ON MAR 1 *	2 450	1964
1965	---	3.31 ON APR 16	0 B ON MAR 1	5 200	1965
1966	---	4.19 B ON APR 5	0 B ON MAR 1	10 100	1966
1967	---	3.79 B ON APR 15	0 B ON MAR 1	6 550	1967
1968	---	1.95 B ON MAR 20	0 B ON MAR 1	3 020	1968
1969	---	8.86 B ON APR 15	0 B ON MAR 1	9 950	1969
1970	---	9.06 E ON APR 26	0 ON AUG 25	17 100	1970
1971	---	6.57 ON APR 12	0 ON AUG 30	14 000	1971
1972	---	3.03 B ON APR 17	0.020B ON MAR 1	9 590	1972
1973	0.705 AT 08:00 CST ON OCT 3	0.425 ON OCT 3	0 ON JUL 31	505	1973
1974	13.4 AT 19:43 CST ON MAY 22 *	11.6 ON MAY 23 *	0 B ON MAR 1	21 400	1974
1975	9.37 AT 17:00 CST ON APR 28	7.25 ON APR 28	0.008 ON AUG 18	17 200	1975
1976	4.42 AT 21:49 CST ON APR 8	3.68 ON APR 9	0.001 ON OCT 18	18 700	1976
1977	3.71 AT 21:11 CST ON OCT 11	3.43 ON OCT 12	0 ON JUL 4	3 240	1977
1978	2.82 AT 22:50 CST ON APR 17	2.21 ON APR 18	0.001 ON SEP 10	5 250	1978
1979	---	6.82 B ON APR 22	0 ON JUL 26	10 100	1979
1980	---	0.004A ON APR 14	0 ON MAY 16	2 200	1980
1981	13.3 AT 22:09 CST ON JUL 1	2.07 ON JUL 2	0 ON AUG 3	2 150	1981
1982	---	2.10 E ON OCT 1	0 ON JUN 17	2 050	1982
MEAN				8 920	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLUM CREEK NEAR SOURIS - STATION NO. 05NG007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	4.00	14.4	12.3	6.15	4.05	3.70	2.00	1.70	1.25	---	1956
1957	0.293	0.170	0.312	4.01	4.70	3.57	2.03	1.67	1.29	1.55	0.865	0.010	2.30	1957
1958	0	0.066	0.073	3.20	2.50	0.577	0.169	0	0	0	0	0	0.019	1958
1959	0	0	0.095	0.070	0.013	0	0	0	0	0.004	0.020	0.000	0.023	1959
1960	0.004	0	0	1.20	0.905	0.583	0.070	0.000	0	0	0	0	0.349	1960
1961	0	0	0.010	0.062	0.030	0.003	0	0	0	0	0	0	0.013	1961
1962	0	0	0	0.000	0.009	0.003	0	0	0	0	0	0	0.011	1962
1963	0	0	0.006	0.011	0.015	0.398	0.020	0.004	0.001	0	0	0	0.056	1963
1964	0	0	0	0.359	0.225	0.007	0.003	0	0	0	0	0	0.074	1964
1965	0	0	0	0.451	0.164	0.142	0.220	0.129	0.200	0.202	0.000	0.041	0.198	1965
1966	0.003	0	0.037	0.935	3.12	0.907	0.330	0.215	0.001	0.019	0.012	0	0.700	1966
1967	0	0	0	0.567	0.500	0.460	0.136	0.002	0	0	0	0	0.217	1967
1968	0	0	0.006	0.077	0.001	0	0	0	0	0.005	0.010	0	0.021	1968
1969	0	0	0	5.60	12.1	1.62	2.00	1.43	0.959	0.019	0.677	0.307	3.09	1969
1970	0.124	0	0	0.997	11.5	5.39	2.95	1.90	1.94	1.22	1.21	0.204	3.20	1970
1971	0.040	0	0	0.964	3.05	2.05	1.07	0.557	0.623	0.024	0.217	0.010	1.30	1971
1972	0	0	0.216	2.03	3.97	1.60	0.551	0.100	0.132	0.002	0.030	0.001	1.10	1972
1973	0	0	0.017	0.026	0.009	0.032	0.009	0.000	0.005	0.017	0.013	0.001	0.025	1973
1974	0	0	0	1.47	16.0	5.57	0.966	0.403	0.505	0.543	0.362	0.167	3.20	1974
1975	0.050	0.001	0	1.11	16.2	0.93	3.09	2.03	2.90	0.96	4.29	3.26	4.92	1975
1976	2.60	1.65	0.750	55.4	20.8	0.54	5.50	1.27	1.15	0.045	0.600	0.244	12.7	1976
1977	0.033	0.001	0.064	0.000	0.746	0.215	0.091	0.005	0.115	0.037	0.024	0	0.250	1977
1978	0	0	0.013	0.496	0.355	0.005	0.110	0	0	0	0	0	0.119	1978
1979	0	0	0	0.043	3.10	2.00	0.350	0.017	0.062	0.056	0.036	0.007	0.071	1979
1980	0	0	0	0.151	0	0	0	0	0	0	0.013	0.012	0.019	1980
1981	0	0.032	0.007	0.001	0.001	0.004	0.001	0	0	0	0.001	0.001	0.002	1981
1982	---	---	0.074	0.526	0.106	0.135	0.009	0	0	0	---	---	0.115	1992
MEAN	0.126	0.077	0.060	3.15	4.55	2.11	0.990	0.517	0.515	0.521	0.390	0.219	1.30	MEAN

LOCATION - LAT 49 37 30 N DRAINAGE AREA, 6 630 km²
LONG 100 10 20 W REGULATED

PLUM CREEK NEAR SOURIS - STATION NO. 05NG007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	22.3 ON JUN 22	---	---	1956
1957	---	8.52 ON APR 27	0.020B ON MAR 13	50 500	1957
1958	---	4.22 ON APR 14	0 B ON MAR 4 *	17 300	1958
1959	---	0.708 ON MAR 31	0 ON MAR 1	479	1959
1960	---	5.24 B ON APR 11	0 B ON MAR 1	7 380	1960
1961	---	0.218B ON APR 3	0 ON MAR 1	276	1961
1962	---	0.323B ON APR 21	0 ON MAR 1	240	1962
1963	---	1.53 ON JUN 16	0 ON MAR 1	1 180	1963
1964	---	1.08 ON APR 18	0 ON MAR 1	1 560	1964
1965	---	1.19 ON APR 14	0 B ON MAR 1	4 200	1965
1966	---	4.33 ON MAY 5	0 B ON MAR 1	15 000	1966
1967	1.16 AT 16:00 CST ON APR 23	1.07 ON APR 24	0 B ON MAR 1	4 600	1967
1968	---	0.365B ON MAR 24	0 B ON MAR 1	448	1968
1969	24.5 AT 17:08 CST ON MAY 1	24.4 ON MAY 2	0 B ON MAR 1	65 300	1969
1970	17.7 AT 17:41 CST ON MAY 16	17.6 ON MAY 16	0 B ON MAR 1	68 600	1970
1971	3.96 AT 15:41 CST ON JUN 16	3.94 ON JUN 16	0 B ON MAR 1	28 400	1971
1972	6.94 B AT 17:30 CST ON APR 15	6.09 B ON APR 15	0 B ON MAR 1	23 300	1972
1973	0.238 AT 15:08 CST ON MAY 13	0.215 ON MAY 13	0 B ON MAR 1	520	1973
1974	---	21.4 ON MAY 11	0 B ON MAR 1	67 700	1974
1975	32.0 AT 04:35 CST ON MAY 14 *	31.1 ON MAY 13	0 B ON MAR 1	104 000	1975
1976	---	152 ON APR 20 *	0.142 ON OCT 18	269 000	1976
1977	---	1.47 B ON APR 9	0 ON JUL 1	5 460	1977
1978	3.11 B AT 16:46 CST ON APR 7	2.01 B ON APR 7	0 B ON MAR 1	2 520	1978
1979	5.39 AT 19:17 CST ON MAY 31	5.30 ON JUN 1	0 B ON MAR 1	18 400	1979
1980	0.737B AT 16:36 CST ON APR 10	0.573B ON APR 10	0 B ON MAR 1	392	1980
1981	---	0.034B ON MAR 12	0 ON MAY 21	37.5	1981
1982	3.68 B AT 14:25 CST ON APR 15	3.13 B ON APR 15	0 B ON MAR 1	2 430	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		29 200	MEAN

PLUM RIVER NEAR ROSENFELD - STATION NO. 05OC019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	9.82	1.06	0.065	0.309	0.002	0	0	---	---	1.38	1969
1970	---	---	0	19.6	5.72	10.4	---	---	---	---	---	---	---	1970
1971	---	---	0	17.5	0.205	0.193	0.041	0	0	0	---	---	2.19	1971
1972	---	---	1.28	4.30	0.075	0.001	0	0	0.001	0	---	---	0.699	1972
1973	---	---	0.493	0.036	0	1.65	0.020	0.002	0.570	0.340	---	---	0.385	1973
1974	---	---	0	27.5	11.1	0.375	0	0	0	0	---	---	4.82	1974
1975	---	---	0	2.54	0.808	0.127	0.054	0	0	0	---	---	0.436	1975
1976	---	---	0	10.9	0.057	0.968	0.014	0	0	0	---	---	1.46	1976
1977	---	---	0	0.072	0.205	0.154	0.013	0.005	0.057	0.065	---	---	0.071	1977
1978	---	---	0.053	7.91	0.277	0.561	0.008	0	0.175	0.025	---	---	1.11	1978
1979	---	---	0	35.6	3.49	0.836	0.228	0.017	0.001	0.016	---	---	4.93	1979
1980	---	---	0	1.69	0.005	0	0.098	0.001	0	0.006	---	---	0.221	1980
1981	---	---	1.06	0.152	0.109	0.032	0	0.002	0.005	0.109	---	---	0.185	1981
1982	---	---	0.389	5.76	0.080	0.179	0.070	0.085	0	0.085	---	---	0.807	1982
MEAN	---	---	0.234	10.2	1.66	1.11	0.068	0.083	0.062	0.050	---	---	1.44	MEAN

LOCATION - LAT 49 11 30 N DRAINAGE AREA, 782 km^2
LONG 97 24 08 W NATURAL FLOW

PLUM RIVER NEAR ROSENFELD - STATION NO. 05OC019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	53.8 B ON APR 11	0B ON MAR 1 *	29 200	1969
1970	---	76.7 B ON APR 18	0B ON MAR 1	---	1970
1971	166 AT 01:15 CST ON APR 12	152 B ON APR 11	0B ON MAR 1	46 500	1971
1972	---	15.8 B ON APR 14	0B ON MAR 1	14 800	1972
1973	20.4 AT 06:34 CST ON JUN 18	17.3 ON JUN 18	0B ON MAR 1	8 150	1973
1974	---	139 B ON APR 16	0B ON MAR 1	102 000	1974
1975	---	8.750 ON APR 17	0B ON MAR 1	9 230	1975
1976	79.9 B AT 15:41 CST ON APR 5	71.6 B ON APR 5	0B ON MAR 1	38 900	1976
1977	7.53 AT 01:40 CST ON MAY 30	4.47 ON MAY 30	0B ON MAR 1	1 510	1977
1978	---	39.9 B ON APR 9	0B ON MAR 1	23 500	1978
1979	217 AT 10:15 CST ON APR 28 *	197 ON APR 28 *	0B ON MAR 1	104 000	1979
1980	9.358 AT 13:15 CST ON APR 4	7.768 ON APR 5	0B ON MAR 1	6 680	1980
1981	---	2.598 ON MAR 14	0 ON MAY 1	3 920	1981
1982	---	32.7 B ON APR 14	0B ON MAR 1	17 000	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 400	MEAN

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO. 05RE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	---	11.8	13.0	---	1967
1968	11.9	10.9	9.55	17.7	122	185	98.1	82.6	76.3	64.9	65.7	45.0	62.6	1968
1969	25.8	18.4	14.9	34.9	94.0	92.5	64.3	141	177	153	88.4	39.8	79.0	1969
1970	19.7	15.9	13.2	11.7	41.3	32.8	35.9	26.7	16.2	20.3	33.9	29.1	24.8	1970
1971	21.7	16.3	13.2	35.5	141	53.7	22.0	25.0	17.3	14.6	22.6	24.9	34.2	1971
1972	20.1	16.3	13.9	17.9	196	80.2	27.0	15.3	10.6	9.84	10.9	11.0	36.0	1972
1973	11.9	11.7	11.2	16.3	71.0	52.6	37.6	17.8	12.1	17.6	28.5	27.6	26.4	1973
1974	18.0	14.8	13.8	17.9	141	98.3	26.0	12.2	11.2	16.3	20.9	18.0	34.2	1974
1975	14.7	13.0	11.3	12.3	63.2	85.9	62.3	49.6	96.4	70.4	37.8	21.1	44.9	1975
1976	15.1	12.8	11.6	24.5	33.9	32.3	19.3	9.79	7.30	6.88	7.70	7.71	15.7	1976
1977	7.10	7.15	6.93	9.83	22.9	18.8	36.5	40.8	38.0	43.1	31.5	20.6	23.7	1977
1978	15.1	12.6	11.2	12.2	47.5	48.7	38.0	27.8	23.7	50.4	53.3	32.5	31.2	1978
1979	20.1	15.0	13.2	18.2	185	246	76.5	20.6	13.5	13.8	17.3	17.5	51.0	1979
1980	15.8	14.1	12.6	16.6	50.8	24.0	12.9	11.3	14.6	21.6	22.5	17.3	19.5	1980
1981	13.9	11.8	10.3	11.3	25.6	88.6	83.1	52.6	16.2	13.1	26.7	37.6	29.4	1981
1982	22.9	16.7	13.4	18.4	125	99.5	50.2	24.5	18.2	10.3	22.5	21.3	37.7	1982
MEAN	16.9	13.8	12.0	18.3	88.0	77.3	46.0	37.2	36.6	35.6	31.3	24.0	36.7	MEAN

LOCATION - LAT 52 46 40 N DRAINAGE AREA, 6 790 km^2
LONG 96 45 10 W NATURAL FLOW

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO. 05RE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	189 AT 23:00 CST ON MAY 30	185 ON MAY 30	8.92 ON APR 5	1 980 000	1968
1969	230 AT 04:00 CST ON AUG 29	223 ON AUG 25	13.2 ON APR 7	2 490 000	1969
1970	53.5 AT 18:32 CST ON MAY 23	53.2 ON MAY 23	10.7 ON APR 20	782 000	1970
1971	175 AT 22:20 CST ON MAY 10	174 ON MAY 9	12.2 ON APR 11	1 080 000	1971
1972	243 AT 16:30 CST ON MAY 11	242 ON MAY 11	8.33 ON OCT 16	1 140 000	1972
1973	93.2 AT 10:00 CST ON MAY 22	85.2 ON MAY 21	10.9 ON MAR 22	834 000	1973
1974	161 AT 10:00 CST ON MAY 27	161 ON MAY 26	9.46 ON AUG 26	1 080 000	1974
1975	106 AT 11:34 CST ON SEP 22	103 ON SEP 13	10.5 ON APR 12	1 420 000	1975
1976	---	39.1E ON APR 29	5.72 ON OCT 4 *	498 000	1976
1977	56.9 AT 13:06 CST ON JUL 22	56.4 ON JUL 23	6.65 ON MAR 23	748 000	1977
1978	66.3 AT 11:13 CST ON MAY 30	64.3 ON MAY 30	10.8 ON MAR 28	983 000	1978
1979	311 AT 13:28 CST ON JUN 8 *	308 ON JUN 8 *	12.0 ON APR 13	1 620 000	1979
1980	59.7 AT 04:20 CST ON MAY 18	58.3 ON MAY 13	9.57 ON AUG 21	617 000	1980
1981	---	92.9A ON JUL 5	9.53 ON MAR 26	927 000	1981
1982	162 AT 11:36 CST ON MAY 15	157 ON MAY 15	11.8 E ON MAR 10	1 190 000	1982
				1 160 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX) E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PORTAGE DIVERSION NEAR OAKLAND - STATION NO. 05LL018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.5	0	0	0	0	0	---	---	12.4	1970
1971	---	---	0	11.3	0	0	0	0	0	0	---	---	1.38	1971
1972	---	---	7.09	103	7.47	0	0	0	0	0	---	---	14.5	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	144	97.0	9.98	3.22	0	0	0	---	---	31.6	1974
1975	---	---	0	43.7	145	61.8	0.106	0	0	0	---	---	31.3	1975
1976	---	---	0	475	211	4.11	0	0	0	0	---	---	85.3	1976
MEAN	---	---	1.01	119	71.9	10.8	0.475	0	0	0	---	---	25.2	MEAN

LOCATION - LAT 50 06 30 N
LONG 98 22 50 W REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR OAKLAND - STATION NO. 05LL018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	294 AT 07:00 CST ON APR 26	262 ON APR 26	0 ON MAR 1 *	262 000	1970
1971	---	71.6 ON APR 19	0 ON MAR 1	29 200	1971
1972	---	237 ON APR 16	0 ON MAR 1	307 000	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	527 AT 04:00 CST ON APR 23	524 ON APR 23	0 ON MAR 1	669 000	1974
1975	256 AT 06:40 CST ON MAY 3	253 ON MAY 3	0 ON MAR 1	662 000	1975
1976	733 AT 12:30 CST ON APR 19 *	728 ON APR 19 *	0 ON MAR 1	1 810 000	1976
				534 000	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.4	0	0	0	0	0	---	---	24.8	1970
1971	---	---	0	12.1	0	0	0	0	0	0	---	---	2.96	1971
1972	---	---	7.59	102	7.79	0	0	0	0	0	---	---	28.9	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	143	93.6	10.4	3.43	0	0	0	---	---	61.5	1974
1975	---	---	0	43.6	144	63.5	0	0	0	0	---	---	62.9	1975
1976	---	---	0	469	198	2.29	0	0	0	0	---	---	166	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	1.62	0	0	0	0	0	0	---	---	0.399	1978
1979	---	---	0	65.6	147	34.2	0	0	0	0	---	---	61.8	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0	14.0	0	0	---	---	---	---	---	---	3.45	1982
MEAN	---	---	0.584	69.8	48.7	8.49	0.312	0	0	0	---	---	31.7	MEAN

LOCATION - LAT 49 58 08 N
LONG 98 22 50 W REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	262 E ON APR 26	0 ON MAR 1 *	262 000	1970
1971	---	76.5 ON APR 19	0 ON MAR 1	31 400	1971
1972	---	228 ON APR 16	0 ON MAR 1	305 000	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	515 ON APR 23	0 ON MAR 1	649 000	1974
1975	252 AT 03:10 CST ON MAY 3	244 ON MAY 3	0 ON MAR 1	663 000	1975
1976	---	736 B ON APR 9 *	0 ON MAR 1	1 760 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	59.5 AT 09:15 CST ON APR 11	30.0 ON APR 11	0 ON MAR 1	4 210	1978
1979	357 AT 07:42 CST ON APR 30 *	353 ON APR 30	0B ON MAR 1	652 000	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0 ON MAR 1	0 ON MAR 1	0	1981
1982	142 AT 23:43 CST ON APR 17	142 ON APR 17	0B ON MAR 1	36 300	1982
MEAN				336 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT CREEK NEAR MACDONALD - STATION NO. 05LL021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	6.39	2.01	0.103	0.002	0	0	0	---	---	1.05	1974
1975	---	---	0	0.991	0.413	0.074	0.021	0.003	0	0	---	---	0.106	1975
1976	---	---	0.002	2.95	0.083	0.032	0.001	0	0	0	---	---	0.375	1976
1977	---	---	0	0.002	0.009	0.003	0.002	0	0.001	0.004	---	---	0.003	1977
1978	---	---	0	0.716	0.090	0.047	0.109	0.002	0.001	0	---	---	0.119	1978
1979	---	---	0	5.94	2.49	0.243	0.002	0.001	0	0	---	---	1.07	1979
1980	---	---	0	0.183	0.001	0	0	0	0	0	---	---	0.022	1980
1981	---	0.030	0.035	0.029	0.030	0.017	0.001	0	0	0.017	---	---	0.016	1981
1982	---	---	0.033	0.368	0.221	0.054	0.160	0.004	0	0	---	---	0.105	1982
MEAN	---	0.030	0.008	1.95	0.594	0.064	0.033	0.001	0	0.002	---	---	0.327	MEAN

LOCATION - LAT 49 59 19 N DRAINAGE AREA, 300 km^2
LONG 98 27 51 W NATURAL FLOW

REMARKS - PUBLISHED AS "WILLOW BEND CREEK" PRIOR TO 1979. THE 1981 MAX A D MIN DAILY DISCHARGE OF .107 AND 0 m^3/s OCCURRED IN FEB

RAT CREEK NEAR MACDONALD - STATION NO. 05LL021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	34.0 B ON APR 10	0B ON MAR 1 *	22 300	1974
1975	---	5.15 ON APR 10	0B ON MAR 1	3 940	1975
1976	---	15.4 B ON APR 5	0B ON MAR 1	7 950	1976
1977	---	0.071 ON MAY 23	0B ON MAR 1	53.9	1977
1978	---	2.24 B ON APR 13	0B ON MAR 1	2 520	1978
1979	---	43.6 B ON APR 22 *	0B ON MAR 1	22 700	1979
1980	---	0.570B ON APR 9	0B ON MAR 1	476	1980
1981	0.160 AT 00:00 CST ON MAY 29	0.096 ON MAY 29	0 ON APR 20	343	1981
1982	5.24 AT 22:20 CDT ON JUL 28 *	1.42 ON JUL 29	0B ON MAR 1	2 210	1982
MEAN				6 940	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT RIVER NEAR OTTERBURNE - STATION NO. 05OE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	6.51	3.92	2.16	2.57	6.44	13.6	8.04	0.850	---	1912
1913	0.425	0.283	0.283	17.0	5.46	2.10	2.28	0.677	0.503	1.29	0.850	0.566	2.64	1913
1914	0.028	0.028	0.057	2.12	3.51	2.59	1.24	0.213	0.510	0.875	0.712	0.162	1.00	1914
1915	0	0	0.057	2.69	3.40	1.43	1.10	0.133	0.113	0.703	0.785	0.102	0.883	1915
1916	0.085	0.113	0.113	14.4	0.17	2.16	1.17	0.483	0.329	0.066	0.797	0.178	2.39	1916
1917	0.080	0.038	0.093	4.70	3.21	1.04	0.805	0.129	0.080	0.305	0.924	0.199	0.967	1917
1918	---	---	---	2.07	1.33	2.17	0.605	0.554	0.320	0.662	1.34	0.214	---	1918
1919	0.070	0	0.088	5.10	2.74	1.29	3.18	0.983	1.63	0.818	0.339	0.161	1.37	1919
1920	0.046	0.072	2.11	11.4	4.28	4.40	0.233	0.009	0.042	---	---	---	---	1920
1922	---	---	---	4.22	8.89	3.98	0.589	0.122	1.08	1.04	1.67	---	---	1922
1923	---	---	---	---	16.4	2.09	1.67	0.068	0.878	1.19	0.994	---	---	1923
1924	---	---	---	---	18.6	1.70	0.751	1.35	0.464	1.93	---	---	---	1924
1925	---	---	---	12.0	5.37	41.1	14.5	2.28	2.43	3.65	---	---	---	1925
1926	---	---	---	5.00	2.20	4.07	4.90	0.971	2.95	12.9	---	---	---	1926
1927	---	---	---	30.8	52.2	18.6	5.75	1.19	1.38	1.05	---	---	---	1927
1928	---	---	---	3.54	2.54	4.59	14.2	4.80	0.821	0.840	---	---	---	1928
1929	---	---	---	---	2.32	2.70	0.498	0.063	0.043	0.406	---	---	---	1929
1930	---	---	---	---	8.83	1.65	2.47	0.177	0.061	0.949	---	---	---	1930
1931	---	---	---	9.65	4.70	1.82	0.525	0.219	0.447	1.02	1.58	---	---	1931
1932	---	---	---	---	3.38	0.687	0.749	0.105	0.171	0.819	---	---	---	1932
1933	---	---	---	12.6	2.55	5.03	0.402	0.023	0.152	0.470	---	---	---	1933
1934	---	---	---	3.35	1.29	0.082	0.243	0.002	0.010	0.466	---	---	---	1934
1935	---	---	---	---	3.10	1.65	0.837	0.175	0.196	0.413	---	---	---	1935
1936	---	---	---	---	2.28	0.632	0.044	0	0.228	---	---	---	---	1936
1942	---	---	---	---	---	1.57	0.388	0.308	3.01	1.10	---	---	---	1942
1943	---	---	---	15.4	6.52	11.5	3.84	0.567	0.523	0.384	---	---	---	1943
1944	---	---	---	2.71	1.98	9.21	5.65	6.71	18.3	3.08	11.1	---	---	1944
1945	---	---	---	25.9	11.8	2.70	2.57	1.04	7.37	6.97	---	---	---	1945
1946	---	---	---	16.1	3.34	0.809	0.850	0.057	0.684	1.92	---	---	---	1946
1947	---	---	---	11.8	6.11	9.09	2.92	4.88	1.19	3.69	---	---	---	1947
1948	---	---	---	20.5	10.7	1.62	2.08	3.34	0.023	0.364	0.635	0.324	---	1948
1949	0.222	0.187	0.176	6.34	4.37	1.58	0.260	1.69	0.351	3.55	3.85	0.758	1.95	1949
1950	0.340	0.360	0.208	10.6	63.6	0.88	9.34	2.22	4.68	9.74	3.85	0.713	9.99	1950
1951	0.460	0.280	0.609	13.8	9.94	3.04	0.437	0.521	1.03	0.904	0.635	0.266	2.66	1951
1952	0.048	0.028	0.063	2.68	1.20	0.772	0.578	0.335	0.087	0.150	0.399	0.209	0.541	1952
1953	0.038	0.010	0.233	1.51	1.95	6.20	3.20	0.465	0.549	0.618	0.731	0.319	1.32	1953
1954	0.119	0.173	0.364	4.95	12.4	16.0	1.85	0.414	0.756	0.992	0.813	0.625	3.29	1954
1955	0.340	0.226	0.266	14.1	7.27	5.65	1.95	0.546	0.210	0.866	0.755	0.290	2.70	1955
1956	0.118	0.133	0.127	8.95	9.92	3.69	2.03	2.93	12.5	2.41	5.59	1.21	6.12	1956
1957	0.501	0.208	3.78	16.8	10.8	10.3	16.6	1.32	0.761	0.609	0.761	0.377	5.59	1957
1958	0.106	0.068	0.423	1.64	1.33	0.868	3.02	0.286	0.087	0.599	0.728	0.392	0.798	1958
1959	0.089	0.038	0.093	7.68	11.3	10.6	3.79	1.49	1.66	7.53	4.63	0.826	4.82	1959
1960	0.353	0.306	0.223	22.6	9.31	3.93	1.71	0.262	0.221	0.170	0.839	0.372	3.38	1960
1961	0.338	0.160	1.42	3.50	3.05	0.490	0.056	0.032	0.039	0.166	0.157	0.070	0.832	1961
1962	0.029	0.062	0.119	4.10	9.49	11.6	2.34	3.44	0.978	0.832	1.33	0.830	2.94	1962
1963	0.216	0.009	1.07	9.43	5.42	11.3	8.89	3.78	0.290	0.322	0.513	0.312	3.51	1963
1964	0.208	0.576	0.056	8.53	11.2	7.36	4.55	0.380	0.334	1.42	0.784	0.324	2.96	1964
1965	0.087	0.113	0.085	18.1	15.4	7.76	4.40	0.637	2.19	3.83	3.57	1.49	4.78	1965
1966	0.784	0.780	2.33	49.9	21.2	9.18	10.5	3.36	4.66	1.26	1.17	0.390	8.78	1966
1967	0.307	0.225	0.715	41.7	21.0	1.96	0.464	0.102	0.844	0.121	0.159	0.184	5.57	1967
1968	0.071	0.070	1.15	4.36	5.27	4.99	6.58	5.43	6.91	2.94	2.23	0.611	3.39	1968
1969	0.264	0.225	0.405	19.8	10.9	3.25	1.79	0.904	0.376	1.66	1.00	0.430	3.42	1969
1970	0.267	0.167	0.221	9.51	26.8	10.8	1.48	0.106	0.463	0.699	1.89	0.347	4.75	1970
1971	0.223	0.104	0.273	11.8	5.66	1.63	0.480	0.218	0.036	0.530	0.794	0.275	1.77	1971
1972	0.153	0.037	0.560	4.44	4.26	0.708	0.042	0.188	0.348	0.891	0.875	0.086	1.04	1972
1973	0.029	0.020	1.57	1.95	1.59	1.31	1.03	0.697	0.454	2.71	1.33	0.424	1.10	1973
1974	0.082	0.219	0.169	23.1	31.3	12.6	0.430	0.138	0.186	0.305	0.378	0.204	5.75	1974
1975	0.200	0.095	0.232	2.12	4.28	2.13	2.83	0.006	0.088	0.101	0.357	0.113	1.05	1975
1976	0.075	0.083	0.198	4.19	1.51	1.13	0.321	0.084	0	0.194	0.020	0	0.640	1976
1977	0	0	0.068	0.906	0.770	0.775	0.251	0.093	0.499	1.26	0.725	0.123	0.457	1977
1978	0.112	0.055	0.403	9.79	4.43	0.634	0.358	0.029	0.087	0.041	0.212	0.103	1.38	1978
1979	0.040	0.014	0.058	10.8	12.9	5.37	0.316	0.044	0.121	0.053	0.289	0.118	2.52	1979
1980	0.002	0.065	0.132	4.86	0.990	0.077	0	0	0.088	0.756	0.749	0.161	0.592	1980
1981	0.015	0.161	1.32	1.50	0.994	1.94	0.593	0.422	0.912	2.71	2.31	0.777	1.17	1981
1982	0.050	0.029	0.020	10.7	6.91	6.96	5.36	2.58	0.604	4.02	1.63	0.835	3.37	1982
MEAN	0.175	0.163	0.567	10.9	8.06	5.23	2.72	1.07	1.47	1.89	1.63	0.403	2.00	MEAN

LOCATION - LAT 49 27 42 N DRAINAGE AREA, 1 350 km²
LONG 97 00 26 W REGULATED

RAT RIVER NEAR OTTERBURNE - STATION NO. 05OE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	19.3 ON APR 23	0.283B ON FEB 1	83 300	1913
1914	---	7.99 ON APR 23	0.028B ON JAN 1	31 600	1914
1915	---	5.21 ON MAY 5	0 B ON JAN 1 *	27 800	1915
1916	---	29.2 ON APR 19	0.085B ON JAN 1	75 600	1916
1917	---	7.31 ON APR 24	0.028B ON FEB 11	30 500	1917
1918	---	3.79 ON JUN 11	---	---	1918
1919	---	7.82B ON APR 9	0 B ON FEB 1	43 100	1919
1920	---	17.0 ON APR 18	0 B ON JAN 21	---	1920
1922	---	15.8 ON MAY 25	---	---	1922
1923	---	59.5 ON APR 26	---	---	1923
1924	---	---	---	---	1924
1925	---	88.1 ON JUN 12	---	---	1925
1926	---	16.2 ON OCT 27	---	---	1926
1927	---	138 ON MAY 14	---	---	1927
1928	---	22.8 ON JUL 20	---	---	1928
1929	---	---	---	---	1929
1930	---	---	0 ON SEP 8	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	20.2 B ON APR 16	0 ON AUG 19	---	1933
1934	---	---	0 ON AUG 3	---	1934
1935	---	---	---	---	1935
1936	---	---	0 ON JUL 14	---	1936
1942	---	---	---	---	1942
1943	---	24.9 ON APR 14	---	---	1943
1944	---	37.9 ON SEP 7	0 B ON APR 1	---	1944
1945	---	50.7 ON MAR 29	---	---	1945
1946	---	26.7 B ON MAR 31	---	---	1946
1947	---	17.8 ON AUG 21	---	---	1947
1948	---	63.7 ON APR 28	---	---	1948
1949	---	9.808 ON APR 7	0.082 ON JUL 18	61 400	1949
1950	---	166 ON MAY 6 *	0.249B ON MAR 28	315 000	1950
1951	---	18.8 B ON APR 8	0.057B ON DEC 30	84 000	1951
1952	---	3.60 ON APR 20	0 ON SEP 8	17 100	1952
1953	---	12.4 ON JUN 5	0 D OW FEB 11	41 700	1953
1954	---	31.1 ON JUN 14	0.085B ON JAN 26	104 000	1954
1955	---	20.6 ON APR 25	0.028 ON AUG 25	85 300	1955
1956	---	27.6 ON APR 26	0.028B ON MAR 30	130 000	1956
1957	---	32.3 ON JUN 30	0.028B ON MAR 16	176 000	1957
1958	---	5.04 ON JUL 7	0.028B ON FEB 3	25 200	1958
1959	---	51.0 ON JUN 13	0.023 ON AUG 9	152 000	1959
1960	---	36.0 ON APR 10	0.011 ON SEP 30	109 000	1960
1961	---	6.060 ON MAR 26	0 B ON FEB 18	26 200	1961
1962	26.0 AT 06:00 CST ON MAY 29	25.7 ON MAY 29	0 B ON JAN 1	92 600	1962
1963	32.8 AT 05:00 CST ON JUN 29	32.0 ON JUN 29	0 B ON FEB 15	111 000	1963
1964	---	24.9 A ON MAY 8	0 B ON MAR 27	94 300	1964
1965	51.5 AT 23:00 CST ON APR 14	51.0 ON APR 14	0.020B ON JAN 20	151 000	1965
1966	90.0 AT 09:30 CST ON APR 5	86.1 ON APR 5	0.266B ON DEC 28	276 000	1966
1967	91.2 AT 17:30 CST ON APR 22 *	88.3 ON APR 22	0.014 ON OCT 17	175 000	1967
1968	15.4 AT 08:15 CST ON MAY 16	15.1 ON MAY 16	0.014B ON FEB 25	107 000	1968
1969	---	40.8 ON APR 13	0.045 ON SEP 3	108 000	1969
1970	37.7 AT 04:00 CST ON MAY 18	36.5 ON MAY 18	0.005 ON AUG 28	150 000	1970
1971	---	27.9 B ON APR 11	0 ON SEP 29	55 700	1971
1972	---	18.6 B ON APR 16	0 B ON FEB 7	33 000	1972
1973	---	3.08 ON OCT 22	0.010B ON FEB 11	34 700	1973
1974	---	57.2 A ON APR 24	0 B ON JAN 12	181 000	1974
1975	21.6 AT 15:00 CST ON JUL 1	19.5 ON JUL 1	0 ON AUG 22	33 000	1975
1976	---	5.55 ON APR 15	0 ON AUG 5	20 300	1976
1977	3.03 AT 03:17 CST ON MAY 31	2.38 ON MAY 31	0 B ON JAN 1	14 400	1977
1978	16.4 B AT 04:05 CST ON APR 12	16.3 B ON APR 12	0 ON AUG 31	42 900	1978
1979	43.9 B AT 20:55 CST ON APR 20	42.3 B ON APR 20	0 ON AUG 21	79 300	1979
1980	9.41 AT 22:43 CST ON APR 7	9.200 ON APR 7	0 ON JUL 5	18 700	1980
1981	3.53B AT 15:30 CST ON NOV 20	3.31 ON OCT 31	0.002B ON JAN 14	37 000	1981
1982	21.4 AT 10:53 CST ON APR 16	20.8 ON APR 16	0.085B ON FEB 14	106 000	1982
				88 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.098	2.74	5.66	6.30	2.98	1.30	1.75	3.07	---	---	2.99	1959
1960	---	---	0.209	6.83	5.22	3.66	1.69	0.097	0.072	0.024	---	---	2.22	1960
1961	---	---	0.158	1.64	2.19	0.460	0.072	0.022	0.033	0.009	---	---	0.571	1961
1962	---	---	0.085	1.42	4.35	5.01	2.12	3.36	2.57	5.36	---	---	3.03	1962
1963	---	---	0.204	5.60	3.84	6.82	3.39	1.64	0.655	0.201	---	---	2.81	1963
1964	---	---	0.028	3.66	5.84	4.00	2.00	0.211	0.259	0.060	---	---	2.11	1964
1965	---	---	0.028	5.10	7.16	4.51	3.32	0.359	2.18	2.84	---	---	3.18	1965
1966	---	---	0.170	17.5	11.0	5.55	4.68	2.01	2.46	0.720	---	---	5.48	1966
1967	---	---	0.208	14.7	10.1	1.59	0.520	0.147	0	0.066	---	---	3.39	1967
1968	---	---	0.282	3.24	3.61	4.03	5.35	4.23	4.13	1.98	---	---	3.35	1968
1969	---	---	0.323	9.14	6.33	2.40	1.30	0.951	0.408	1.32	---	---	2.77	1969
1970	---	---	0.226	4.67	13.4	8.29	0.542	0.060	0.230	0.046	---	---	3.52	1970
1971	---	---	0.210	5.64	4.39	1.42	0.097	0.279	0.008	0.404	---	---	1.60	1971
1972	---	---	0.143	2.44	3.36	0.496	0.064	0.064	0.228	0.445	---	---	0.903	1972
1973	---	---	0.574	1.53	1.44	1.55	0.065	0.448	0.315	2.09	---	---	1.10	1973
1974	---	---	---	6.60	12.5	5.74	0.199	0.123	0.125	0.248	---	---	---	1974
1975	---	---	0.340	1.24	3.19	2.08	1.64	0.023	0.149	0.040	---	---	1.09	1975
1976	---	---	0.118	2.89	1.23	0.832	0.223	0.020	0.093	0.067	---	---	0.677	1976
1977	---	---	0.003	0.495	0.590	0.682	0.438	0.123	0.614	1.14	---	---	0.510	1977
1978	---	---	0.180	3.90	3.24	0.494	0.406	0.081	0.025	0.104	---	---	1.05	1978
1979	---	---	0.048	3.01	6.91	2.84	0.212	0.039	0.004	0.044	---	---	1.69	1979
1980	---	---	0.104	1.96	0.061	0.031	0.007	0.006	0.168	0.701	---	---	0.476	1980
1981	---	---	0.389	1.12	0.834	1.68	0.620	0.522	1.24	2.72	---	---	1.14	1981
1982	---	---	0.178	5.07	5.60	4.92	2.79	1.58	0.365	2.99	---	---	2.93	1982
MEAN	---	---	0.194	4.67	5.12	3.15	1.51	0.738	0.757	1.18	---	---	2.11	MEAN

LOCATION - LAT 49 19 04 N DRAINAGE AREA, 901 km²
LONG 96 56 39 W REGULATED

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	14.0 ON JUN 11	0.028B ON MAR 1	63 300	1959
1960	---	13.5 ON APR 21	0 E ON AUG 14 *	47 000	1960
1961	---	4.84 ON APR 29	0.003 ON SEP 15	12 100	1961
1962	---	7.79 ON MAY 24	0.045B ON MAR 1	64 100	1962
1963	---	15.7 ON JUN 26	0.003B ON MAR 1	59 500	1963
1964	---	11.4 ON MAY 6	0.014 ON AUG 22	44 700	1964
1965	---	15.1 ON MAY 6	0.028B ON MAR 1	67 300	1965
1966	---	28.6 ON APR 11	0.170B ON MAR 1	116 000	1966
1967	---	28.9 ON APR 21 *	0 ON AUG 24	71 800	1967
1968	---	7.82 ON SEP 4	0.142B ON MAR 1	70 800	1968
1969	---	17.3 ON APR 20	0.136B ON MAR 1	58 600	1969
1970	---	16.9 ON MAY 16	0.005 ON AUG 24	74 500	1970
1971	---	9.15 ON APR 21	0 ON AUG 16	33 800	1971
1972	---	5.21 ON APR 23	0 B ON MAR 1	19 100	1972
1973	---	3.65 ON OCT 23	0 ON SEP 19	23 300	1973
1974	---	23.0 ON APR 25	0 ON AUG 10	---	1974
1975	---	5.75 ON APR 28	0.006 ON SEP 24	23 000	1975
1976	---	4.39 ON APR 21	0 ON JUL 13	14 300	1976
1977	---	1.64 ON OCT 4	0 B ON MAR 1	10 800	1977
1978	---	7.11 ON APR 19	0 ON AUG 15	22 200	1978
1979	19.2 B AT 14:19 CST ON APR 20 *	10.7 B ON APR 19	0 ON AUG 13	34 800	1979
1980	3.70 AT 08:00 CST ON APR 19	3.65 ON APR 19	0.004 ON JUL 27	10 100	1980
1981	3.57 AT 20:59 CST ON OCT 26	3.40B ON OCT 31	0.034 ON JUL 29	24 100	1981
1982	10.4 AT 10:16 CST ON APR 15	9.46 ON APR 15	0.036B ON MAR 1	62 000	1982
MEAN				44 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

RAT RIVER NEAR SUNDOWN - STATION NO. 05OE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	7.66	2.58	2.22	0.899	0.686	0.214	0.399	0.670	0.358	---	1960
1961	0.278	0.052	1.09	2.24	2.17	0.360	0.239	0.069	0.128	0.288	0.211	0.160	0.608	1961
1962	0.233	0.203	0.288	2.77	7.05	4.93	1.54	2.17	0.612	0.416	0.604	0.580	1.80	1962
1963	0.198	0.080	1.45	5.09	3.44	5.98	1.86	0.955	0.240	0.942	0.241	0.241	1.72	1963
1964	0.173	0.102	0.106	4.80	4.45	4.76	0.579	0.173	0.612	0.969	0.422	0.145	1.44	1964
1965	0.152	0.166	0.144	3.43	5.79	2.88	2.67	0.593	2.28	3.58	1.10	1.00	1.99	1965
1966	0.575	0.449	1.33	10.7	9.11	1.80	5.82	0.492	1.51	0.531	0.432	0.292	2.77	1966
1967	0.226	0.075	0.509	11.7	4.40	0.482	0.437	0.222	0.030	0.255	0.250	0.278	1.57	1967
1968	0.184	0.121	0.882	3.40	3.12	8.02	3.35	2.90	1.97	1.16	0.739	0.337	1.85	1968
1969	0.246	0.331	0.386	6.55	2.87	2.71	0.928	0.525	0.316	0.936	0.690	0.388	1.40	1969
1970	0.263	0.234	0.310	7.66	10.7	4.52	0.416	0.103	0.622	1.03	1.18	0.300	2.28	1970
1971	0.128	0.084	0.116	5.68	2.57	1.17	0.609	0.237	0.161	0.660	0.689	0.275	1.03	1971
1972	0.158	0.158	0.441	4.94	2.40	0.329	0.159	0.548	0.591	0.699	0.709	0.119	0.934	1972
1973	0.114	0.133	1.15	1.28	1.36	2.04	0.615	0.732	0.989	1.68	0.988	0.372	0.951	1973
1974	0.177	0.229	0.278	10.4	10.6	3.20	0.263	0.075	0.190	0.413	0.411	0.295	2.22	1974
1975	0.299	0.210	0.294	1.73	3.17	2.00	0.068	0.052	0.082	0.244	0.330	0.097	0.783	1975
1976	0.161	0.097	0.218	3.36	0.955	0.963	0.184	0.034	0.019	0.076	0.070	0.017	0.509	1976
1977	0.005	0.015	0.322	1.10	0.766	0.703	0.315	0.148	0.998	1.15	0.787	0.783	0.591	1977
1978	0.243	0.158	0.271	6.93	2.28	0.313	0.463	0.087	0.152	0.203	0.167	0.111	0.951	1978
1979	0.051	0.049	0.153	5.62	4.03	2.18	0.220	0.045	0.184	0.295	0.294	0.216	1.11	1979
1980	0.128	0.054	0.169	2.24	0.761	0.129	0.098	0.062	0.504	0.856	0.427	0.179	0.466	1980
1981	0.158	0.307	0.643	0.945	1.08	1.60	0.423	0.558	2.52	2.54	1.18	0.447	1.03	1981
1982	0.093	0.072	0.366	5.43	3.33	1.88	1.28	0.968	0.292	2.42	0.688	0.860	1.48	1982
MEAN	0.193	0.154	0.475	5.03	3.87	2.22	1.05	0.537	0.657	0.948	0.580	0.341	1.34	MEAN

LOCATION - LAT 49 12 35 N DRAINAGE AREA, 414 km²
LONG 96 17 00 W NATURAL FLOW

RAT RIVER NEAR SUNDOWN - STATION NO. 05OE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	36.5 ON APR 14 *	0 B ON MAR 1 *	---	1960
1961	---	5.32 ON APR 22	0 B ON FEB 28	19 200	1961
1962	---	22.9 ON MAY 21	0.105B ON MAR 25	56 700	1962
1963	---	13.1 B ON APR 10	0 B ON FEB 2	54 300	1963
1964	---	11.8 ON APR 19	0.028B ON FEB 29	45 300	1964
1965	---	14.3 ON MAY 8	0.113B ON APR 8	62 900	1965
1966	---	19.9 ON JUL 5	0.147 ON AUG 5	87 200	1966
1967	---	21.3 ON APR 22	0.014 ON SEP 11	49 600	1967
1968	---	11.4 ON JUN 12	0.025B ON MAR 4	58 500	1968
1969	---	14.4 B ON APR 14	0.139 ON AUG 29	44 200	1969
1970	---	19.8 ON MAY 31	0.051 ON AUG 28	71 900	1970
1971	---	13.6 ON APR 13	0.057 ON AUG 15	32 500	1971
1972	---	12.3 ON APR 19	0.005 ON AUG 7	29 500	1972
1973	---	6.71 ON JUN 22	0.020 ON JUL 23	30 000	1973
1974	36.5 AT 12:19 CST ON APR 22 *	34.3 ON APR 22	0 ON JUL 26	69 800	1974
1975	7.48 AT 03:05 CST ON MAY 2	7.39 ON MAY 2	0 ON SEP 16	24 700	1975
1976	5.24 AT 06:18 CST ON APR 19	5.15 ON APR 19	0 ON AUG 24	16 100	1976
1977	3.34 AT 23:55 CST ON SEP 28	3.31 ON SEP 29	0.003B ON JAN 11	18 700	1977
1978	12.9 AT 11:20 CST ON APR 20	12.4 ON APR 19	0.009 ON SEP 11	30 000	1978
1979	19.2 AT 14:19 CST ON APR 20	17.8 ON APR 20	0.001 ON AUG 15	35 000	1979
1980	6.95B AT 16:57 CST ON APR 9	6.09B ON APR 9	0 ON AUG 1	14 700	1980
1981	13.6 AT 13:10 CST ON SEP 9	13.1 ON SEP 9	0.071 ON AUG 20	32 600	1981
1982	20.3 B AT 18:11 CST ON APR 16	18.8 B ON APR 16	0.061B ON FEB 18	46 600	1982
MEAN				42 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED DEER RIVER NEAR THE MOUTH, LAKE WINNIPEGOSIS - STATION NO. 05LC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	0.25	89.9	111	74.5	44.6	31.0	24.5	---	---	---	1956
1957	---	---	0	11.3	150	98.8	47.0	23.2	15.8	11.2	---	---	---	1957
1958	---	---	2.61	14.3	19.5	14.4	19.1	13.8	12.1	12.9	---	---	---	1958
1959	---	---	0.048	12.6	37.8	32.5	46.4	25.1	32.6	40.5	45.2	31.8	---	1959
1960	8.46	6.91	6.83	36.1	104	112	59.4	29.3	16.3	---	---	---	---	1960
1961	---	---	2.60	10.8	13.2	10.3	5.85	1.98	0.756	0.573	0.233	---	---	1961
1962	---	---	0	2.46	29.2	25.5	11.7	7.14	6.82	8.04	5.16	2.52	---	1962
1963	0.277	0	0	0.19	14.2	13.6	10.3	6.01	6.51	5.79	3.53	1.77	5.07	1963
1964	0.268	0.119	0.171	5.78	45.7	35.7	16.5	13.2	16.7	14.7	13.8	8.40	14.3	1964
1965	6.28	2.86	2.56	12.5	59.2	136	98.9	64.6	40.2	44.7	16.5	5.72	41.0	1965
1966	5.36	5.85	6.86	27.7	74.9	98.2	101	66.6	40.7	26.5	22.0	13.4	40.9	1966
1967	10.4	8.37	7.40	9.59	78.9	94.6	85.1	24.1	14.8	9.57	8.78	2.09	26.2	1967
1968	0.442	0.099	0.444	12.5	20.3	34.8	42.9	38.5	32.7	22.4	16.7	12.3	19.6	1968
1969	7.64	6.75	6.66	25.9	41.5	26.1	14.3	8.93	5.31	11.3	8.52	5.55	14.1	1969
1970	1.53	0.228	0.059	2.87	74.2	75.8	93.8	63.1	29.2	21.8	44.2	27.9	36.5	1970
1971	18.8	12.2	10.2	46.1	86.7	48.9	29.6	21.2	12.4	12.8	13.1	10.3	26.9	1971
1972	7.86	4.20	5.54	18.3	170	101	49.4	24.7	13.5	9.61	4.41	1.60	34.3	1972
1973	1.02	0.751	0.791	8.67	20.7	55.4	74.9	44.2	24.6	17.2	13.7	10.2	22.8	1973
1974	6.17	6.33	6.73	21.7	136	153	70.3	30.0	21.0	18.4	15.5	10.8	41.5	1974
1975	5.90	4.26	5.13	10.3	74.3	87.3	58.0	32.0	25.5	30.4	26.0	15.5	31.4	1975
1976	9.92	7.93	5.57	22.9	37.9	59.2	83.4	42.1	20.3	12.1	6.73	2.77	26.0	1976
1977	1.43	0.649	0.857	8.99	19.1	14.6	11.9	22.9	25.3	31.5	24.0	10.9	14.7	1977
1978	11.7	6.91	7.67	20.1	71.1	46.3	31.5	20.3	17.3	24.4	21.3	16.4	24.7	1978
1979	12.4	8.36	7.09	19.4	145	189	84.8	34.3	18.2	12.7	8.04	4.65	45.5	1979
1980	4.23	2.58	2.76	8.70	14.0	8.18	7.10	6.43	7.46	10.0	8.90	5.27	7.15	1980
1981	3.58	2.94	3.78	11.4	18.4	14.4	14.2	10.6	5.72	11.2	18.1	11.9	10.5	1981
1982	6.07	2.22	1.37	7.63	25.8	35.9	29.7	25.2	15.8	15.2	9.07	7.78	15.3	1982
MEAN	6.14	4.31	3.61	15.0	61.9	64.2	45.6	27.6	18.8	17.7	15.4	10.2	25.0	MEAN

LOCATION - LAT 52 52 45 N DRAINAGE AREA, 14 300 km^2
LONG 101 02 35 W NATURAL FLOW

RED DEER RIVER NEAR THE MOUTH, LAKE WINNIPEGOSIS - STATION NO. 05LC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	150 ON MAY 28	---	---	1956
1957	---	165 ON MAY 10	0 B ON MAR 1 *	---	1957
1958	---	28.9 ON MAY 1	---	---	1958
1959	---	60.0 ON MAY 10	0 B ON MAR 1	---	1959
1960	---	144 ON JUN 2	---	---	1960
1961	---	15.1 ON MAY 18	---	---	1961
1962	---	36.0 ON MAY 30	0 B ON MAR 1	---	1962
1963	---	28.9 ON MAY 19	0 B ON JAN 20	185 000	1963
1964	---	63.1 ON MAY 24	0.113B ON JAN 21	451 000	1964
1965	---	176 ON JUN 8	2.31 B ON FEB 25	1 294 000	1965
1966	---	112 ON JUL 21	5.10 B ON JAN 1	1 290 000	1966
1967	---	137 ON MAY 23	0.991B ON DEC 31	825 000	1967
1968	69.4 AT 06:50 CST ON JUL 8	54.9 ON JUL 8	0.062B ON MAR 16	619 000	1968
1969	57.2 AT 17:30 CST ON MAY 7	51.8 ON MAY 7	3.20 E ON SEP 18	444 000	1969
1970	118 AT 09:00 CST ON JUL 22	115 ON JUL 22	0.051B ON MAR 16	1 150 000	1970
1971	106 AT 13:48 CST ON MAY 6	101 ON APR 30	0.47 ON SEP 25	847 000	1971
1972	199 AT 10:30 CST ON MAY 15	197 ON MAY 15	1.22 B ON DEC 29	1 080 000	1972
1973	104 AT 17:58 CST ON JUL 7	88.1 ON JUL 12	0.657B ON MAR 1	720 000	1973
1974	192 AT 08:00 CST ON MAY 31	189 ON MAY 31	5.83 B ON JAN 12	1 310 000	1974
1975	---	97.1 ON JUN 12	3.99 B ON FEB 10	991 000	1975
1976	104 AT 18:19 CST ON JUL 5	102 ON JUL 5	2.27 B ON DEC 30	821 000	1976
1977	41.6 AT 04:10 CST ON OCT 17	36.8 ON NOV 3	0.580B ON FEB 3	465 000	1977
1978	82.7 AT 06:00 CST ON MAY 11	79.0 ON MAY 11	6.40 B ON FEB 15	779 000	1978
1979	229 AT 12:03 CST ON JUN 5 *	223 ON JUN 5 *	3.65 B ON DEC 19	1 440 000	1979
1980	28.3 AT 14:40 CST ON AUG 25	19.4 ON MAY 5	2.37 B ON MAR 5	226 000	1980
1981	25.0 AT 19:00 CST ON NOV 7	20.9 ON NOV 13	1.74 ON SEP 20	332 000	1981
1982	63.9 AT 19:34 CST ON AUG 7	47.0 ON JUN 7	1.08 B ON APR 2	483 000	1982
MEAN				787 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

RED RIVER AT EMERSON - STATION NO. 05OC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	67.0	49.7	34.3	29.8	32.3	64.6	39.9	22.3	---	1912
1913	14.1	8.55	11.3	378	90.1	49.8	37.9	27.1	34.3	33.6	37.9	24.6	[illegible]	1913
1914	15.3	13.9	22.7	117	91.9	125	98.7	39.1	37.8	39.0	39.5	28.5	55.8	1914
1915	25.3	24.6	28.1	144	106	142	372	83.5	50.9	51.5	45.4	32.5	92.8	1915
1916	25.4	22.3	26.1	820	588	225	304	145	120	91.0	79.4	56.5	208	1916
1917	35.6	29.6	32.3	397	164	73.3	41.7	18.2	13.2	19.3	25.5	16.0	71.9	1917
1918	6.75	6.27	30.3	68.9	51.4	65.1	28.2	20.7	18.9	11.6	19.1	16.3	28.7	1918
1919	13.3	12.0	16.8	219	112	61.0	221	103	43.4	33.0	22.6	20.6	73.5	1919
1920	23.0	25.6	82.8	520	119	138	95.1	43.7	32.1	34.3	35.1	28.7	97.6	1920
1921	23.0	22.1	32.3	181	73.9	78.2	50.5	25.0	23.8	23.7	20.4	18.7	47.6	1921
1922	13.2	10.7	56.0	361	227	95.6	42.3	18.2	16.9	14.2	20.7	10.6	73.8	1922
1923	8.65	9.27	11.2	287	219	57.0	69.6	23.1	17.0	17.3	17.3	11.3	62.4	1923
1924	6.38	6.71	8.67	80.2	87.5	38.0	25.4	11.5	10.1	20.0	15.0	5.91	26.3	1924
1925	3.99	5.25	30.4	137	46.7	299	96.3	14.7	15.8	26.5	25.2	18.6	59.7	1925
1926	13.2	14.7	47.8	150	38.0	72.9	59.7	13.8	12.8	27.6	23.1	14.0	40.6	1926
1927	11.8	11.1	113	380	415	247	93.8	45.1	42.0	38.8	31.3	22.8	121	1927
1928	17.1	19.0	55.3	215	80.7	93.4	128	54.4	68.6	51.6	45.3	30.9	71.5	1928
1929	29.7	25.0	167	192	75.1	48.0	21.4	12.0	9.14	12.8	13.6	8.33	51.2	1929
1930	5.67	5.07	81.9	247	146	54.5	30.1	10.3	6.10	6.56	7.57	6.68	50.7	1930
1931	4.98	5.65	27.2	95.9	25.0	18.7	10.1	4.46	2.29	2.40	6.25	5.30	17.3	1931
1932	4.71	3.91	38.6	221	54.5	16.6	7.25	1.77	1.13	1.30	3.44	2.52	29.5	1932
1933	1.53	1.40	24.4	165	43.8	29.0	7.18	2.07	1.30	1.38	2.40	1.31	23.3	1933
1934	1.54	0.923	13.9	61.7	18.8	5.55	3.91	1.32	0.673	1.33	2.19	1.18	9.39	1934
1935	0.399	0.763	21.2	94.2	33.2	12.4	30.6	14.6	7.61	3.31	2.20	1.68	18.5	1935
1936	1.61	1.53	1.65	191	73.7	16.5	3.41	2.24	1.89	0.811	0.672	0.947	24.5	1936
1937	0.201	0.034	0.064	57.4	82.3	30.0	23.5	44.3	23.2	11.4	7.95	2.05	23.7	1937
1938	1.51	2.15	41.2	36.3	138	73.1	24.2	6.16	5.48	5.66	5.87	5.15	28.9	1938
1939	5.60	7.23	7.35	105	33.8	18.6	16.0	5.31	6.52	10.1	10.9	7.87	19.5	1939
1940	3.83	4.20	6.35	144	63.2	29.8	10.1	7.23	5.29	6.68	11.1	8.38	24.9	1940
1941	8.84	9.86	10.2	387	88.3	150	40.4	21.4	52.5	86.8	39.3	25.1	76.3	1941
1942	16.0	18.0	55.5	468	254	119	51.2	35.5	88.1	46.5	32.1	21.9	100	1942
1943	22.6	19.8	34.2	655	206	352	184	73.2	51.5	41.7	40.5	26.2	142	1943
1944	18.8	20.8	21.7	123	107	197	193	170	167	82.3	114	77.3	108	1944
1945	36.6	38.7	258	571	245	114	61.9	37.1	50.3	55.9	39.6	28.0	128	1945
1946	26.8	22.4	162	414	117	62.9	69.1	36.0	33.0	47.0	45.8	33.1	89.1	1946
1947	29.2	25.4	29.9	505	338	341	164	57.5	44.5	52.8	46.8	38.1	139	1947
1948	30.7	23.9	24.1	704	568	109	88.9	47.0	28.6	19.1	20.2	15.8	140	1948
1949	12.7	12.9	16.9	417	144	172	96.7	93.1	51.1	32.4	39.3	30.2	93.0	1949
1950	23.4	21.2	26.2	751	2 060	631	286	108	74.1	94.3	58.7	61.2	352	1950
1951	58.1	51.0	64.8	556	308	140	77.6	41.4	55.4	44.8	40.0	54.0	124	1951
1952	50.6	54.2	56.9	486	217	108	166	64.7	39.0	26.8	24.5	19.8	109	1952
1953	17.3	17.3	38.6	115	89.2	252	157	65.2	37.3	25.3	27.2	26.5	72.3	1953
1954	23.6	24.0	38.9	165	120	121	83.8	40.7	25.4	23.1	23.5	20.3	59.1	1954
1955	20.7	18.5	18.5	300	91.4	121	77.6	51.4	26.7	26.7	17.1	12.7	65.1	1955
1956	12.2	12.9	14.4	361	412	154	116	32.7	57.4	19.3	37.5	17.4	104	1956
1957	12.5	11.6	40.9	167	128	119	263	81.6	181	107	95.8	48.5	105	1957
1958	39.2	37.0	52.9	94.3	46.7	40.3	115	28.5	13.0	12.2	13.8	10.1	41.9	1958
1959	9.86	9.70	17.9	171	59.8	77.8	58.5	21.5	15.4	16.0	16.6	17.8	40.9	1959
1960	17.5	15.8	13.4	468	147	88.1	64.6	16.7	17.5	9.68	15.7	10.7	73.3	1960
1961	9.76	8.29	48.7	73.4	68.0	31.5	12.5	7.77	7.55	16.8	11.6	7.43	25.4	1961
1962	5.60	5.66	6.37	418	340	720	455	204	95.3	69.4	61.6	46.3	203	1962
1963	35.3	30.4	42.9	222	106	212	86.4	37.2	34.3	39.5	27.4	19.7	74.3	1963
1964	21.7	21.4	19.4	240	155	269	103	37.4	19.0	48.2	39.3	25.8	82.9	1964
1965	25.8	25.2	26.9	708	526	284	160	66.4	59.3	125	94.5	78.2	182	1965
1966	53.2	46.7	165	1 300	573	198	135	107	81.9	56.4	60.4	51.6	235	1966
1967	46.2	41.8	59.1	720	566	185	102	42.1	26.9	25.7	27.3	19.1	155	1967
1968	13.9	14.0	40.6	138	70.9	171	194	93.2	84.8	62.4	60.7	55.4	83.3	1968
1969	48.0	45.7	61.5	825	777	183	114	58.8	46.9	59.0	57.8	44.5	194	1969
1970	41.2	40.0	44.7	544	650	480	156	45.7	39.6	36.3	47.2	31.0	180	1970
1971	29.3	28.3	55.5	410	155	92.1	82.4	41.4	42.4	114	146	75.9	106	1971
1972	55.6	45.2	193	677	308	180	70.3	70.2	58.3	51.9	48.4	32.7	149	1972
1973	31.5	31.6	165	76.7	48.6	37.1	17.6	22.1	72.7	118	74.0	58.9	63.0	1973
1974	48.5	47.8	57.3	548	840	305	106	92.4	58.1	54.9	60.6	38.5	189	1974
1975	37.2	40.0	46.7	367	773	196	794	133	72.5	68.8	68.2	44.3	222	1975
1976	43.1	46.5	79.1	494	125	67.3	44.0	31.7	20.6	11.0	8.89	5.01	80.7	1976
1977	5.11	5.38	11.3	59.5	34.0	24.4	18.0	7.38	15.1	40.3	31.9	36.6	24.1	1977
1978	34.7	28.0	49.2	1 020	290	110	102	49.0	31.7	27.1	24.7	18.3	148	1978
1979	15.9	16.4	21.9	739	1 390	229	182	95.5	63.1	49.6	55.4	43.3 R	244 R	1979
1980	38.3	37.7	41.9	287	68.0	46.2	24.4	13.7	23.7	15.6	18.6	10.2	51.7	1980
1981	8.27	8.40	41.6	51.2	39.3	44.8	77.5	43.0	51.2	68.0	55.6	31.3	43.6	1981
1982	32.6	29.9	49.7	625	251	121	116	69.8	38.1	124	71.8	54.8	132	1982
MEAN	21.2	20.1	48.0	350	243	140	186	46.8	39.6	39.6	36.0	26.1 R	93.5	MEAN

LOCATION - LAT 49 00 30 N; LONG 97 12 40 W   DRAINAGE AREA, 104 000 km²; REGULATED   INTERNATIONAL GAUGING STATION   R - REVISED SINCE JAN 1980

RED RIVER AT EMERSON - STATION NO. 05OC001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	725 ON APR 11	7.36 B ON MAR 6	1 960 000	1913
1914	---	206 ON JUN 19	13.9 B ON FEB 1	1 760 000	1914
1915	---	569 ON JUL 9	21.0 B ON JAN 1	2 930 000	1915
1916	---	1 310 ON APR 24	21.4 B ON FEB 13	6 580 000	1916
1917	---	733 ON APR 12	8.50 B ON DEC 31	2 270 000	1917
1918	---	141B ON APR 3	5.30 B ON JAN 31	905 000	1918
1919	---	379 ON JUL 11	11.3 B ON FEB 28	2 320 000	1919
1920	---	756B ON APR 15	19.5 B ON JAN 1	3 090 000	1920
1921	---	362 ON APR 15	14.8 B ON NOV 24	1 500 000	1921
1922	---	535 ON APR 14	10.1 B ON FEB 17	2 330 000	1922
1923	---	736 ON APR 25	6.51 B ON JAN 7	1 970 000	1923
1924	---	179 ON APR 28	4.39 B ON DEC 31	831 000	1924
1925	---	496 ON JUN 21	3.54 B ON FEB 5	1 880 000	1925
1926	---	227B ON APR 1	6.71 ON SEP 7	1 280 000	1926
1927	---	580 ON MAY 16	10.4 B ON FEB 4	3 820 000	1927
1928	---	476 ON APR 6	16.4 B ON JAN 5	2 260 000	1928
1929	---	544 ON APR 1	6.65 B ON NOV 30	1 610 000	1929
1930	---	589 ON APR 10	4.36 ON OCT 9	1 600 000	1930
1931	---	225 ON APR 10	1.04 ON OCT 5	546 000	1931
1932	---	535B ON APR 15	0.680 ON SEP 29	934 000	1932
1933	---	311B ON APR 9	0.708 ON SEP 5	736 000	1933
1934	---	136B ON APR 13	0.425B ON DEC 31	297 000	1934
1935	---	155B ON APR 2	0.340B ON JAN 3	585 000	1935
1936	---	510 ON APR 21	0.481B ON DEC 17	774 000	1936
1937	---	165 ON MAY 6	0.025B ON FEB 6 *	746 000	1937
1938	---	213 ON MAY 19	0.963B ON JAN 7	912 000	1938
1939	---	190B ON APR 10	3.34 ON AUG 18	614 000	1939
1940	---	413B ON APR 21	2.69 B ON JAN 18	786 000	1940
1941	---	787 ON APR 16	7.50 B ON JAN 9	2 400 000	1941
1942	---	790 ON APR 10	13.4 B ON JAN 16	3 160 000	1942
1943	---	835 ON APR 20	16.5 B ON FEB 28	4 470 000	1943
1944	---	348B ON APR 19	17.8 B ON JAN 2	3 400 000	1944
1945	---	833B ON APR 4	25.5 B ON DEC 23	4 040 000	1945
1946	---	682B ON APR 5	18.2 B ON FEB 23	2 810 000	1946
1947	---	804 ON APR 28	22.8 B ON FEB 27	4 390 000	1947
1948	---	1 470 ON APR 27	13.8 B ON DEC 31	4 420 000	1948
1949	---	827 ON APR 15	11.6 B ON JAN 20	2 930 000	1949
1950	---	2 670 ON MAY 13 *	18.7 B ON FEB 1	11 100 000	1950
1951	---	753 ON APR 15	32.0 B ON NOV 25	3 910 000	1951
1952	---	685 ON APR 24	17.0 B ON DEC 29	3 450 000	1952
1953	---	411 ON JUN 28	16.3 B ON JAN 16	2 280 000	1953
1954	---	326B ON APR 17	16.1 B ON DEC 9	1 860 000	1954
1955	680 AT 04:00 CST ON APR 10	663 ON APR 10	10.6 B ON DEC 30	2 050 000	1955
1956	957 AT 07:00 CST ON APR 27	954 ON APR 26	10.6 B ON JAN 1	3 280 000	1956
1957	433 AT 03:00 CST ON JUL 5	433 ON JUL 4	10.2 B ON JAN 31	3 310 000	1957
1958	225 AT 08:00 CST ON JUL 12	223 ON JUL 12	5.78 B ON DEC 21	1 320 000	1958
1959	---	445B ON APR 10	7.70 B ON JAN 1	1 290 000	1959
1960	864 AT 12:00 CST ON APR 13	864 ON APR 13	7.82 ON OCT 10	2 310 000	1960
1961	122B AT 11:00 CST ON MAR 31	121B ON MAR 30	3.45 ON SEP 7	800 000	1961
1962	946 AT 17:30 CST ON APR 25	943 ON APR 25	4.47 B ON JAN 28	6 390 000	1962
1963	391 AT 14:00 CST ON APR 13	388 ON APR 13	19.3 B ON DEC 5	2 340 000	1963
1964	---	496A ON JUN 25	10.3 A ON SEP 20	2 620 000	1964
1965	1 310 AT 06:00 CST ON APR 26	1 310 ON APR 25	24.8 B ON FEB 4	5 730 000	1965
1966	1 890 AT 15:00 CST ON APR 11	1 880 ON APR 11	40.5 B ON DEC 9	7 420 000	1966
1967	951B AT 11:20 CST ON APR 9	940 ON APR 30	15.6 B ON DEC 24	4 900 000	1967
1968	---	394 ON JUL 24	11.4 B ON MAR 2	2 640 000	1968
1969	---	1 550 ON APR 26	31.7 B ON NOV 24	6 110 000	1969
1970	---	1 120 ON APR 28	26.5 B ON DEC 18	5 660 000	1970
1971	---	753 ON APR 16	24.4 ON OCT 2	3 340 000	1971
1972	---	869 ON APR 23	30.6 B ON DEC 11	4 700 000	1972
1973	416B AT 12:40 CST ON MAR 27	402B ON MAR 27	12.7 ON JUL 24	1 990 000	1973
1974	1 230 AT 14:39 CST ON APR 28	1 230 ON APR 28	33.7 B ON DEC 16	5 950 000	1974
1975	1 210 AT 03:14 CST ON MAY 8	1 210 ON MAY 7	27.8 B ON JAN 21	7 010 000	1975
1976	932B AT 05:30 CST ON APR 6	886 ON APR 7	4.08 B ON DEC 15	2 550 000	1976
1977	130 AT 11:00 CST ON APR 10	126 ON APR 10	4.67 B ON MAR 9	761 000	1977
1978	1 430 AT 15:22 CST ON APR 18	1 420 ON APR 18	16.1 B ON DEC 19	4 670 000	1978
1979	2 630 AT 20:00 CST ON MAY 1 *	2 620 ON MAY 1	15.1 B ON FEB 6	7 680 000R	1979
1980	---	614 ON APR 10	8.64 B ON DEC 31	1 640 000	1980
1981	174 AT 13:00 CST ON JUL 4	173 ON JUL 4	6.97 B ON FEB 8	1 370 000	1981
1982	966 AT 22:53 CST ON APR 18	963 ON APR 18	27.6 B ON FEB 7	4 160 000	1982
				2 950 000R	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO. 05OJ014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	223	256	0	0	0	0	0	---	---	59.6	1969
1970	---	---	0	167	43.7	0	0	0	0	0	---	---	26.0	1970
1971	---	---	0	72.5	0	0	0	0	0	0	---	---	8.88	1971
1972	---	---	0	14.4	0	0	0	0	0	0	---	---	1.76	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	362	414	0	0	0	0	0	---	---	96.7	1974
1975	---	---	0	0	140	0	0	0	0	0	---	---	17.7	1975
1976	---	---	0	78.9	0	0	0	0	0	0	---	---	9.66	1976
MEAN	---	---	0	115	107	0	0	0	0	0	---	---	27.5	MEAN

LOCATION - LAT 50 05 00 N
LONG 96 55 40 W   REGULATED SINCE 1969

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO. 05OJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	648 AT 13:57 CST ON MAY 1	637 ON MAY 1	0 ON MAR 1 *	1 260 000	1969
1970	682 AT 04:10 CST ON MAY 2 *	682 ON MAY 1	0 ON MAR 1	551 000	1970
1971	---	286 ON APR 14	0 ON MAR 1	188 000	1971
1972	---	65.7 ON APR 18	0 ON MAR 1	37 200	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	1 130 ON APR 24 *	0 ON MAR 1	2 050 000	1974
1975	283 AT 13:50 CST ON MAY 8	279 ON MAY 8	0 ON MAR 1	374 000	1975
1976	---	306 ON APR 11	0 ON MAR 1	205 000	1976
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		583 000	MEAN

RED RIVER FLOODWAY NEAR ST. NORBERT - STATION NO. 05OC017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	224	237	0	0	0	0	0	---	---	57.4	1969
1970	---	---	0	150	214	0	0	0	0	0	---	---	45.4	1970
1971	---	---	0	54.6	0	0	0	0	0	0	---	---	6.68	1971
1972	---	---	0	4.15	0	0	0	0	0	0	---	---	0.508	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	341	363	0	0	0	0	0	---	---	87.7	1974
1975	---	---	0	0.377	132	0	0	0	0	0	---	---	16.8	1975
1976	---	---	0	73.5	0	0	0	0	0	0	---	---	9.01	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	231	11.9	0	0	0	0	0	---	---	29.8	1978
1979	---	---	0	286	795	0	0	0	0	0	---	---	136	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	2.55	0	0	0	0	0	0	---	---	0.313	1982
MEAN	---	---	0	97.7	125	0	0	0	0	0	---	---	27.8	MEAN

LOCATION - LAT 49 45 24 N
LONG 97 07 36 W   REGULATED SINCE 1969

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR ST. NORBERT - STATION NO. 05OC017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	626 AT 16:35 CST ON MAY 2	626 ON MAY 3	0 ON MAR 1 *	1 220 000	1969
1970	648 AT 08:46 CST ON MAY 1	646 ON MAY 1	0 ON MAR 1	961 000	1970
1971	---	257 ON APR 14	0 ON MAR 1	141 000	1971
1972	---	33.4 ON APR 18	0 ON MAR 1	10 700	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	1 040 ON APR 24	0 ON MAR 1	1 860 000	1974
1975	274 AT 10:00 CST ON MAY 8	267 ON MAY 7	0 ON MAR 1	355 000	1975
1976	---	292 ON APR 11	0 ON MAR 1	191 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	544 AT 03:00 CST ON APR 16	513 ON APR 16	0B ON MAR 1	632 000	1978
1979	1 190 AT 16:14 CST ON MAY 9 *	1 190 ON MAY 9 *	0 ON MAR 1	2 870 000	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0 ON MAR 1	0 ON MAR 1	0	1981
1982	18.5 AT 15:50 CST ON APR 18	17.8 ON APR 18	0 ON MAR 1	6 620	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		589 000	MEAN

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	637	513	816	514	288	156	81.9	76.2	60.5	---	1962
1963	40.2	36.1	60.4	433	186	360	150	66.0	45.1	50.5	66.3	25.3	126	1963
1964	29.1	31.8	31.7	426	336	314	167	57.1	41.8	100	69.3	36.9	136	1964
1965	34.1	35.6	35.6	1 040	997	483	243	98.3	75.8	214	142	106	293	1965
1966	76.5	60.5	163	1 950	1 060	332	274	132	118	67.4	75.7	58.9	364	1966
1967	51.5	48.4	59.4	1 230	901	293	133	56.2	46.5	32.6	21.4	28.1	241	1967
1968	22.1	18.8	62.0	308	140	231	283	194	189	104	73.7	51.6	140	1968
1969	41.2	46.5	57.4	1 200	1 400	368	253	112	79.6	94.2	79.8	50.7	317	1969
1970	54.3	52.9	53.8	861	1 350	785	371	110	65.2	64.8	79.0	54.3	326	1970
1971	40.3	38.8	68.4	737	288	232	174	94.0	76.4	175	205	93.3	185	1971
1972	64.9	61.5	209	910	623	315	135	102	74.6	79.0	67.3	51.3	224	1972
1973	52.2	46.3	217	133	71.0	67.0	42.9	41.0	79.4	167	99.9	79.1	91.7	1973
1974	64.6	62.4	75.9	1 010	1 780	777	265	174	121	105	105	85.7	387	1974
1975	76.7	66.7	81.0	448	1 170	471	996	290	150	174	139	104	350	1975
1976	92.9	88.6	99.3	1 000	563	336	214	124	71.2	44.7	31.8	23.2	224	1976
1977	30.3	29.2	36.6	97.4	57.9	47.3	43.7	35.2	41.1	73.3	50.8	69.6	51.1	1977
1978	55.8	49.2	63.0	1 270	493	164	134	77.3	54.1	47.7	31.4	30.6	205	1978
1979	25.2	29.9	40.9	941	2 200	611	342	144	82.9	61.4	71.4	57.8	386	1979
1980	63.7	60.5	64.6	467	99.1	60.6	45.3	37.6	45.0	43.6	44.4	29.9	87.8	1980
1981	22.1	24.5	75.7	84.0	59.3	83.5	108	51.6	88.1	108	83.0	45.4	69.6	1981
1982	40.8	42.6	60.7	814	495	241	165	108	63.7	162	104	90.6	199	1982
MEAN	48.9	46.5	80.8	762	704	352	241	114	84.0	97.6	81.7	58.7	220	MEAN

LOCATION - LAT 50 06 28 N   DRAINAGE AREA, 287 000 km²
LONG 96 55 54 W   REGULATED

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1962	---	1 720 ON APR 25	---	---	1962
1963	---	782 ON APR 11	24.0B ON DEC 25	3 980 000	1963
1964	---	1 000B ON APR 18	26.2B ON JAN 1	4 310 000	1964
1965	---	1 890 ON APR 19	32.8B ON JAN 9	9 240 000	1965
1966	---	2 570A ON APR 14	51.0B ON MAR 15	11 500 000	1966
1967	---	1 650B ON APR 26	15.0 ON NOV 9 *	7 610 000	1967
1968	---	490B ON APR 11	16.7B ON MAR 2	4 420 000	1968
1969	---	2 200 ON MAY 1	40.8B ON JAN 10	9 990 000	1969
1970	---	2 040 ON MAY 2	49.0B ON DEC 28	10 300 000	1970
1971	---	1 580B ON APR 13	36.8B ON JAN 11	5 830 000	1971
1972	---	1 130B ON APR 23	41.1B ON DEC 12	7 090 000	1972
1973	---	535B ON MAR 28	30.3 ON SEP 8	2 890 000	1973
1974	2 520 AT 05:40 CST ON APR 26	2 510 ON APR 26	52.4B ON FEB 2	12 200 000	1974
1975	---	1 480 CN MAY 13	62.6B ON FEB 1	11 000 000	1975
1976	1 570B AT 23:30 CST ON APR 8	1 530 ON APR 9	18.3B ON DEC 5	7 070 000	1976
1977	---	186B ON APR 13	19.0 ON AUG 29	1 610 000	1977
1978	---	1 810B ON APR 17	24.0B ON NOV 15	6 460 000	1978
1979	2 790 AT 15:44 CST ON MAY 8 *	2 780 ON MAY 8 *	23.8B ON JAN 16	12 200 000	1979
1980	---	1 010B ON APR 12	19.7B ON DEC 26	2 780 000	1980
1981	---	234 ON JUL 5	19.8B ON JAN 9	2 200 000	1981
1982	---	1 310 ON APR 18	37.3B ON JAN 12	6 280 000	1982
MEAN				6 950 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	49.6	44.4	136	35.3	17.2	18.4	---	---	---	1958
1959	---	---	16.8	218	101	121	69.4	27.8	18.1	40.4	---	---	---	1959
1960	---	---	13.9	625	209	119	80.2	22.1	21.9	11.0	19.0	10.2	---	1960
1961	9.11	8.25	52.0	96.1	84.9	38.8	14.4	9.20	8.54	21.0	14.7	8.77	30.6	1961
1962	5.82	5.42	8.24	532	442	743	504	253	117	71.5	61.9	48.5	233	1962
1963	33.7	30.8	44.7	281	127	273	104	43.8	35.9	40.3	28.5	20.7	88.4	1963
1964	21.4	22.8	19.8	312	197	277	147	46.3	31.7	69.2	44.4	28.6	101	1964
1965	25.0	25.6	26.4	761	666	333	187	74.5	66.6	143	105	101	210	1965
1966	76.2	53.8	147	1 530	747	254	222	114	98.8	55.6	54.0	50.1	283	1966
1967	41.5	36.3	50.7	935	674	219	114	43.1	27.1	27.5	17.1	18.3	184	1967
1968	15.6	12.3	44.1	188	89.6	195	249	174	151	82.3	60.6	51.4	110	1968
1969	40.7	35.2	53.5	815	961	225	141	68.7	49.9	62.5	58.7	44.4	214	1969
1970	40.0	36.3	40.7	645	954	586	225	47.6	41.5	37.6	44.2	31.9	228	1970
1971	29.3	26.6	65.5	604	186	103	84.9	44.6	44.4	112	155	62.0	126	1971
1972	44.0	46.1	181	750	387	190	74.5	73.8	58.0	55.8	42.4	30.1	161	1972
1973	29.3	31.8	192	84.5	54.3	41.4	20.1	20.6	69.6	139	80.9	61.3	69.0	1973
1974	49.1	48.9	56.8	657	1 120	402	113	90.6	73.9	61.4	61.3	38.4	232	1974
1975	35.8	39.2	46.7	367	894	229	837	172	72.6	65.0	60.3	50.5	241	1975
1976	45.6	48.7	68.0	625	153	78.5	47.9	30.6	21.4	10.9	8.30	4.57	94.5	1976
1977	4.07	5.36	10.5	66.9	40.0	27.2	17.0	8.23	12.8	42.0	25.3	40.7	25.1	1977
1978	36.2	31.4	42.3	1 040	430	127	105	58.9	41.1	31.6	19.3	21.7	165	1978
1979	17.5	17.9	22.2	680	1 760	309	199	101	62.7	44.0	50.5	39.5	277	1979
1980	38.8	38.1	43.4	342	70.8	51.3	24.4	17.4	25.8	14.1	10.4	11.3	56.8	1980
1981	7.25	8.98	42.6	54.2	39.4	55.9	87.3	40.7	59.5	77.0	61.0	35.6	47.7	1981
1982	31.2	28.2	42.1	688	304	147	129	78.9	40.5	139	75.6	60.1	147	1982
MEAN	30.8	29.0	55.5	537	430	208	157	68.3	50.7	58.9	50.4	37.8	151	MEAN

LOCATION - LAT 49 33 40 N   DRAINAGE AREA, 117 000 km²
LONG 97 10 52 W   REGULATED

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	476B ON APR 11	---	---	1959
1960	---	1 060 ON APR 17	---	---	1960
1961	---	150B ON MAR 31	3.85 ON SEP 9	964 000	1961
1962	---	1 260A ON APR 25	4.39B ON FEB 5	7 360 000	1962
1963	552B AT 12:30 CST ON APR 10	507B ON APR 10	19.5 B ON DEC 5	2 790 000	1963
1964	---	654B ON APR 19	16.8 B ON MAR 10	3 200 000	1964
1965	1 280 AT 16:00 CST ON APR 19	1 280 ON APR 19	23.1 B ON JAN 21	6 610 000	1965
1966	---	1 870A ON APR 15	40.3 B ON MAR 15	8 930 000	1966
1967	1 270B AT 14:00 CST ON APR 9	1 180B ON APR 9	8.64B ON NOV 14	5 790 000	1967
1968	436 AT 17:00 CST ON JUL 25	430 ON JUL 25	9.77B ON MAR 7	3 460 000	1968
1969	1 460 AT 11:39 CST ON MAY 2	1 460 ON MAY 1	32.8 B ON FEB 6	6 740 000	1969
1970	1 450 AT 20:15 CST ON MAY 1	1 450 ON APR 30	27.4 B ON DEC 3	7 180 000	1970
1971	---	1 210B ON APR 13	25.2 B ON FEB 8	3 980 000	1971
1972	971 AT 12:40 CST ON APR 25	968 ON APR 25	27.4 B ON DEC 8	5 080 000	1972
1973	---	473B ON MAR 26	12.9 ON AUG 3	2 180 000	1973
1974	---	1 420 ON APR 25	34.8 B ON DEC 7	7 320 000	1974
1975	---	1 210 ON MAY 11	28.0 B ON JAN 24	7 610 000	1975
1976	1 190B AT 23:00 CST ON APR 8	1 180B ON APR 8	3.82B ON DEC 21	2 990 000	1976
1977	---	133E ON APR 12	3.60B ON JAN 13 *	791 000	1977
1978	---	1 400 ON APR 21	14.5 B ON NOV 14	5 190 000	1978
1979	2 330 AT 17:45 CST ON MAY 4 *	2 320 ON MAY 4 *	15.2 B ON FEB 4	8 730 000	1979
1980	784 AT 05:57 CST ON APR 12	746B ON APR 12	7.01B ON NOV 18	1 800 000	1980
1981	181 AT 15:41 CST ON JUL 5	180 ON JUL 5	6.78B ON JAN 16	1 500 000	1981
1982	1 070 AT 00:36 CST ON APR 17	1 070 ON APR 17	26.6 B ON FEB 9	4 630 000	1982
				4 760 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RENNIE RIVER NEAR RENNIE - STATION NO. 05PG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.044	3.17	2.95	0.459	0.046	0.055	0.045	0.056	---	---	---	1960
1961	---	---	0.092	0.205	0.904	0.301	0.077	0.058	0.037	0.122	---	---	---	1961
1962	---	---	0	0.255	7.54	3.95	0.836	5.21	2.09	0.043	---	---	---	1962
1963	---	---	0.082	2.01	2.61	3.76	0.547	1.57	0.366	0.247	---	---	---	1963
1964	---	---	0.221	1.99	4.11	0.362	0.412	0.531	0.842	1.82	---	---	---	1964
1965	---	---	0.105	4.01	4.02	0.548	1.08	0.379	0.377	---	---	---	---	1965
1966	---	---	0.300	4.88	5.99	1.03	2.28	0.062	0.122	0.167	0.248	0.323	---	1966
1967	0.311	0.251	0.184	3.55	3.04	0.017	0.093	2.04	0.428	0.021	0.019	0.047	0.837	1967
1968	0.112	0.101	0.084	1.90	1.87	1.48	1.45	0.224	0.491	1.86	0.827	0.403	0.903	1968
1969	0.280	0.259	0.160	1.37	1.86	0.161	0.200	0.151	0.141	0.107	0.105	0.080	0.407	1969
1970	0.147	0.132	0.149	0.680	5.05	2.26	0.05[illegible]	0.018	0.018	0.018	1.23	0.680	0.874	1970
1971	0.295	0.164	0.164	2.43	1.77	0.352	0.647	0.038	0.041	0.027	0.202	0.713	0.571	1971
1972	0.370	0.186	0.142	0.694	1.44	0.180	0.008	0.006	0.004	0.003	0.001	0.001	0.254	1972
1973	0.003	0.022	0.121	0.014	0.024	3.51	0.883	0.479	0.580	4.10	1.97	0.763	1.04	1973
1974	0.362	0.244	0.164	3.36	6.11	1.61	0.107	0.028	0.392	0.531	0.318	0.237	1.13	1974
1975	0.201	0.153	0.147	0.899	1.89	0.459	1.65	0.055	0.280	0.231	0.446	0.220	0.556	1975
1976	0.194	0.129	0.137	1.66	1.22	0.129	0.518	0.032	0.014	0.008	0.003	0.005	0.338	1976
1977	0.003	0.002	0.004	0.005	0.007	1.81	1.05	0.093	0.143	0.873	0.766	0.750	0.461	1977
1978	0.448	0.244	0.141	1.66	3.41	0.746	0.160	0.045	0.026	0.195	0.227	0.144	0.623	1978
1979	0.138	0.135	0.177	0.890	3.57	0.843	0.067	0.064	0.034	0.013	0.043	0.127	0.512	1979
1980	0.156	0.177	0.171	0.244	0.328	0.065	0.104	0.062	0.528	0.356	0.350	0.360	0.241	1980
1981	0.185	0.160	0.022	0.005	0.012	0.009	0.010	0.022	0.203	1.85	0.677	0.540	0.310	1981
1982	0.247	0.174	0.096	0.410	1.92	0.724	0.635	0.244	0.032	0.439	0.389	0.250	0.466	1982
MEAN	0.216	0.158	0.126	1.58	2.68	1.08	0.561	0.499	0.315	0.595	0.460	0.332	0.595	MEAN

LOCATION - LAT 49 55 42 N LONG 95 32 40 W

DRAINAGE AREA, 159 km^2

REGULATED

RENNIE RIVER NEAR RENNIE - STATION NO. 05PG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	7.31 ON APR 25	0 B ON MAR 25 *	---	1960
1961	---	1.14 ON MAY 16	0.014 ON AUG 24	---	1961
1962	---	14.0 ON MAY 26 *	0 B ON MAR 1	---	1962
1963	---	5.44 ON JUN 13	0.002B ON MAR 1	---	1963
1964	---	5.97 ON MAY 8	0.011B ON MAR 1	---	1964
1965	---	6.03 ON MAY 7	---	---	1965
1966	---	8.44E ON APR 17	0.028 ON JUN 21	---	1966
1967	---	7.16E ON APR 24	0.003E ON OCT 24	26 400	1967
1968	---	3.31E ON APR 24	0.042E ON AUG 29	28 500	1968
1969	---	3.60 ON MAY 1	0.042 ON NOV 27	12 800	1969
1970	6.43 AT 14:17 CST ON MAY 6	6.40 ON MAY 6	0 ON APR 2	27 500	1970
1971	7.70 AT 13:21 CST ON APR 22	7.39 ON APR 24	0.012 ON MAY 29	18 800	1971
1972	---	2.80 ON MAY 9	0 ON DEC 23	8 030	1972
1973	---	14.0 E ON JUN 20	0 ON JAN 1	32 900	1973
1974	12.7 AT 14:20 CST ON APR 26 *	12.5 ON APR 26	0.012 ON AUG 10	35 500	1974
1975	3.68 IN JUL	3.68 ON JUL 4	0 ON MAY 30	17 600	1975
1976	---	3.91E ON APR 29	0 ON MAY 19	10 700	1976
1977	7.76 AT 15:09 CST ON JUN 25	7.14 ON JUN 26	0.002E ON FEB 6	14 500	1977
1978	9.60 AT 15:56 CST ON MAY 2	8.61 ON MAY 3	0.004 ON SEP 30	19 700	1978
1979	---	4.45E ON MAY 6	0.005A ON JUN 14	16 200	1979
1980	1.28 AT 09:23 CST ON SEP 22	1.12 ON SEP 23	0.020 ON JUN 27	7 640	1980
1981	5.89 AT 09:38 CST ON OCT 6	4.97 ON OCT 7	0 B ON APR 7	9 700	1981
1982	3.66 AT 07:49 CST ON MAY 19	3.36 ON MAY 20	0.011 ON SEP 21	14 700	1982
				18 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05OC022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	4.91	0.019	0	0	0	0	0	---	---	0.604	1971
1972	---	---	0.478	1.24	0.001	0	0	0	0	0	---	---	0.213	1972
1973	---	---	0.167	0.001	0	0	0	0	0	0.249	---	---	0.053	1973
1974	---	---	0	10.8	28.5	0.437	0	0	0	0	---	---	4.98	1974
1975	---	---	0	0.567	0.286	0.010	0.012	0	0	0	---	---	0.108	1975
1976	---	---	0	2.74	0.003	0.059	0.003	0	0	0	---	---	0.344	1976
1977	---	---	0	0.039	0.029	0.156	0	0	0	0	---	---	0.028	1977
1978	---	---	0.323	2.46	0.014	0	0	0	0.009	0.004	---	---	0.306	1978
1979	---	---	0	11.4	4.87	0.478	0.104	0	0	0	---	---	2.08	1979
1980	---	---	0	0.354	0	0	0	0	0	0	---	---	0.048	1980
1981	---	---	0.206	0.032	0.003	0.010	0	0	0	0	---	---	0.032	1981
1982	---	---	0.068	0.925	0	0	0.003	0.013	0.002	0.047	---	---	0.130	1982
MEAN	---	---	0.104	2.96	2.81	0.096	0.018	0.001	0.001	0.025	---	---	0.747	MEAN

LOCATION - LAT 49 03 30 N DRAINAGE AREA, 138 km^2
LONG 97 [illegible] 50 W NATURAL FLOW

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05OC022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	13.3 ON APR 13	0B ON MAR 1 *	12 800	1971
1972	---	5.64 ON APR 14	0B ON MAR 1	4 500	1972
1973	---	1.26 ON MAR 23	0B ON MAR 1	1 120	1973
1974	---	75.0 ON MAY 2 *	0B ON MAR 1	105 000	1974
1975	---	3.20 ON APR 30	0B ON MAR 1	2 290	1975
1976	---	16.3 ON APR 6	0B ON MAR 1	7 270	1976
1977	---	1.07 ON JUN 1	0B ON MAR 1	586	1977
1978	---	8.21 ON APR 9	0B ON MAR 1	7 320	1978
1979	37.6 AT 02:41 CST ON APR 19 *	36.4 ON APR 19	0B ON MAR 1	44 100	1979
1980	---	3.81 B ON APR 2	0B ON MAR 1	1 020	1980
1981	---	0.500B ON MAR 14	0B ON MAR 1	668	1981
1982	5.40 AT 01:38 CST ON APR 14	5.15 ON APR 14	0B ON MAR 1	2 760	1982
				15 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROARING RIVER NEAR MINITONAS - STATION NO. 05LE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	4.31	4.90	5.00	3.00	0.292	1.09	2.04	---	---	---	1959
1960	---	---	0.080	11.3	9.35	5.87	0.690	0.187	0	0.030	---	---	3.41	1960
1961	---	---	0.042	0.644	0.784	0.149	0.008	0	0	0.003	---	---	0.179	1961
1962	---	---	0	3.07	1.45	0.360	0.050	0.008	0.299	0.542	---	---	0.716	1962
1963	---	---	0.267	4.75	3.22	1.27	0.348	0.224	0.161	0.050	---	---	1.20	1963
1964	---	---	---	1.00	2.61	0.275	0.105	0.097	0.043	0.095	---	---	---	1964
1965	---	---	0	4.30	9.31	4.57	1.69	2.64	1.78	1.28	---	---	3.19	1965
1966	---	---	0.010	8.81	11.3	8.87	3.30	0.690	0.398	1.12	---	---	4.29	1966
1967	---	---	0.170	0.997	11.5	2.99	0.519	0.170	0	0.004	---	---	2.06	1967
1968	---	---	0.603	1.62	1.63	1.71	2.33	1.93	0.912	0.271	---	---	1.39	1968
1969	---	---	0.190	5.29	2.19	2.16	0.945	0.555	0.333	2.17	---	---	1.72	1969
1970	---	---	0.213	6.27	15.3	2.21	2.50	0.727	0.693	3.11	---	---	3.90	1970
1971	---	---	0.272	15.7	4.27	3.20	1.69	1.03	0.195	0.929	---	---	3.38	1971
1972	---	---	0.286	9.30	9.18	2.10	1.44	0.272	0.064	0.186	---	---	2.84	1972
1973	---	---	0.394	1.38	1.74	7.10	4.65	0.629	1.15	1.12	---	---	2.26	1973
1974	---	---	0.335	13.9	16.1	5.09	0.440	0.424	0.899	1.36	---	---	4.79	1974
1975	---	---	0.317	8.50	12.4	7.66	1.00	0.336	1.71	2.43	---	---	4.28	1975
1976	---	---	0.355	15.7	3.15	21.4	2.46	0.496	0.257	0.193	---	---	5.43	1976
1977	---	---	0.163	4.06	1.54	0.645	1.20	1.66	4.38	2.70	---	---	2.03	1977
1978	---	---	0.207	8.22	4.28	0.913	0.450	0.035	[illegible]	1.23	---	---	1.94	1978
1979	---	---	0.177	11.4	22.1	6.44	0.030	0.224	0.161	0.299	---	---	5.20	1979
1980	---	---	0.177	4.54	0.808	---	---	---	---	---	---	---	---	1980
1981	---	---	0.140	1.36	1.74	1.85	0.733	0.264	0.013	0.700	---	---	0.853	1981
1982	---	---	0.022	2.04	1.98	0.752	4.05	1.16	0.161	0.596	---	---	1.55	1982
MEAN	---	---	0.209	6.21	6.37	4.03	1.57	0.611	0.683	1.01	---	---	2.70	MEAN

LOCATION - LAT 52 09 10 N DRAINAGE AREA, 837 km^2
LONG 101 03 10 W NATURAL FLOW

ROARING RIVER NEAR MINITONAS - STATION NO. 05LE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	23.1 AT 18:30 CST ON JUN 29	22.7 ON JUN 30	---	---	1959
1960	47.3 B AT 19:00 CST ON APR 11	39.4 ON APR 12	0 ON AUG 30 *	72 200	1960
1961	---	1.82B ON APR 23	0 ON JUL 28	3 780	1961
1962	---	17.1 B ON APR 20	0 B ON MAR 1	15 200	1962
1963	---	10.9 B ON APR 10	0 B ON MAR 1	27 000	1963
1964	---	9.06 ON MAY 10	---	---	1964
1965	---	25.7 ON MAY 2	0 B ON MAR 1	67 500	1965
1966	---	27.7 ON JUN 27	0 B ON MAR 1	90 000	1966
1967	---	22.1 B ON MAY 1	0 ON AUG 26	48 500	1967
1968	---	6.74 ON JUL 22	0 ON JUN 28	29 300	1968
1969	---	16.5 ON APR 16	0.054 ON SEP 21	36 400	1969
1970	---	36.0 ON MAY 3	0.020 ON JUL 20	82 600	1970
1971	---	47.3 ON APR 18	0.127 ON SEP 4	71 400	1971
1972	---	41.9 ON APR 21	0.034 ON SEP 26	60 200	1972
1973	---	30.9 ON JUN 21	0.085B ON MAR 1	47 900	1973
1974	---	88.1 ON APR 20	0.227 ON AUG 7	101 000	1974
1975	---	27.7 ON APR 30	0.249 ON SEP 2	90 600	1975
1976	146 ON JUN 15 *	131 ON JUN 15 *	0.068 ON SEP 29	115 000	1976
1977	---	12.0 B ON APR 12	0.136B ON MAR 1	43 000	1977
1978	31.4 AT 22:15 CST ON APR 18	27.6 ON APR 18	0.007A ON AUG 22	41 100	1978
1979	---	51.9 A ON MAY 18	0.111A ON AUG 29	110 000	1979
1980	8.96 AT 03:00 CST ON APR 20	8.59 ON APR 19	---	---	1980
1981	4.71 AT 22:30 CST ON JUN 21	4.65 ON JUN 21	0 A ON SEP 2	18 100	1981
1982	---	25.7 A ON JUL 19	0.013B ON MAR 27	32 900	1982
				57 100	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

ROLLING RIVER NEAR DANVERS - STATION NO. 05MF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.284	0.652	0.425	0.283	0.255	0.283	0.311	---	0.355	1915
MEAN	---	---	---	---	0.284	0.652	0.425	0.283	0.255	0.283	0.311	---	0.355	MEAN

LOCATION - LAT 50 33 20 N DRAINAGE AREA, 409 km^2
LONG 99 54 10 W NATURAL FLOW

ROLLING RIVER NEAR DANVERS - STATION NO. 05MF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	1.42 ON JUN 11 *	0 ON JUN 3 *	6 570	1915
				6 570	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.453	1.14	0.777	0.362	0.442	1.03	0.461	0.102	---	1915
1916	0.102	0.113	0.113	4.24	3.07	5.33	5.97	1.40	0.495	0.653	0.570	0.283	1.94	1916
1917	0.227	0.268	0.411	2.57	5.07	1.16	1.25	0.514	1.08	0.256	0.265	0.112	1.10	1917
1918	0.098	0.058	0.231	2.09	1.39	1.58	0.757	0.601	1.14	0.451	0.283	0.201	0.729	1918
1919	0.132	0.029	0.073	4.06	1.90	0.799	1.54	0.604	0.671	0.721	0.425	0.192	0.930	1919
1920	0.015	0.023	0.105	0.951	8.15	2.19	0.784	0.319	0.504	0.614	0.501	0.363	1.22	1920
1921	0.178	0.147	0.227	3.53	6.97	2.00	1.17	0.648	1.78	1.15	0.777	0.389	1.65	1921
1922	0.177	0.092	0.192	4.43	7.44	2.51	1.53	1.16	0.792	---	---	---	---	1922
1961	---	---	0.191	0.975	1.49	0.122	0.007	0	0.007	0.039	---	---	---	1961
1962	---	---	0.012	0.705	0.132	1.00	0.556	0.273	0.521	0.476	---	---	---	1962
1963	---	---	0.226	5.78	3.81	4.62	1.82	0.556	0.640	0.545	---	---	---	1963
1964	---	---	0.152	2.34	4.55	0.963	0.005	0.517	0.222	0.175	---	---	---	1964
1965	---	---	0.068	1.87	10.3	5.23	2.10	1.35	6.00	1.75	---	---	---	1965
1966	---	---	0.032	3.69	7.33	2.72	0.925	2.05	0.511	0.482	---	---	---	1966
1967	---	---	0.301	4.78	9.37	3.81	1.16	0.513	0.008	0.418	---	---	---	1967
1968	---	---	0.692	2.73	2.47	1.30	1.45	3.83	2.06	0.687	---	---	---	1968
1969	---	---	0.235	6.22	4.78	3.52	9.44	1.89	1.06	0.936	---	---	---	1969
1970	---	---	0.391	1.38	25.0	7.05	3.45	1.23	0.885	0.979	---	---	---	1970
1971	---	---	0.212	5.39	3.86	8.95	4.32	1.69	0.707	2.41	---	---	---	1971
1972	0.571	0.328	0.289	4.58	7.94	3.30	0.896	0.403	0.364	0.463	0.351	0.028	1.63	1972
1973	0	0	0.288	1.03	1.22	2.71	0.866	0.848	1.91	2.59	0.875	0.625	1.08	1973
1974	0.299	0.329	0.386	5.11	14.1	5.95	1.14	0.351	0.329	0.305	0.306	0.251	2.42	1974
1975	0.227	0.215	0.223	1.41	6.27	4.15	0.964	2.44	12.8	5.08	2.04	1.54	3.25	1975
1976	1.01	0.713	0.838	10.1	6.03	4.52	1.40	0.492	0.163	0.101	0.126	0.086	2.13	1976
1977	0.078	0.082	0.170	0.643	1.24	0.602	2.53	0.571	1.85	1.90	0.873	0.573	0.933	1977
1978	0.380	0.312	0.291	3.83	3.94	1.61	0.527	0.061	0.418	0.570	0.411	0.202	0.983	1978
1979	0.172	0.164	0.206	3.85	16.4	6.90	1.64	0.396	0.109	0.184	0.205	0.241	2.56	1979
1980	0.161	0.171	0.237	2.10	0.631	0.207	0.527	2.15	2.45	1.67	1.39	1.10	1.07	1980
1981	0.432	0.182	0.377	3.43	1.72	1.98	0.754	0.349	0.212	0.832	0.709	0.183	0.923	1981
1982	0.033	0.013	0.012	5.12	3.95	1.02	0.755	0.672	0.167	0.964	0.848	0.194	1.15	1982
MEAN	0.238	0.180	0.247	3.38	5.73	3.02	1.73	0.944	1.37	1.01	0.681	0.375	1.51	MEAN

LOCATION - LAT 50 31 12 N DRAINAGE AREA, 759 km²
LONG 99 56 27 W NATURAL FLOW

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	17.4 ON JUN 30	0.113B ON FEB 1	61 400	1916
1917	---	10.7 ON APR 30	0.057B ON DEC 27	34 800	1917
1918	---	5.38 ON APR 21	0.028B ON JAN 9	23 000	1918
1919	---	9.00 ON APR 11	0 B ON FEB 17 *	29 300	1919
1920	---	16.5 ON MAY 12	0 B ON JAN 15	38 600	1920
1921	---	12.9 ON MAY 25	0.113B ON JAN 18	51 900	1921
1922	---	12.1 ON MAY 17	---	---	1922
1961	---	2.48 ON MAY 10	0 ON JUL 13	---	1961
1962	---	3.28 ON JUN 3	0 ON MAY 9	---	1962
1963	---	8.81 ON APR 21	0 B ON MAR 1	---	1963
1964	---	8.16 ON MAY 8	0.119 ON SEP 28	---	1964
1965	---	23.2 ON MAY 4	0.065B ON MAR 1	---	1965
1966	---	14.2 ON MAY 10	0 B ON MAR 1	---	1966
1967	---	11.6 ON MAY 12	0 ON SEP 25	---	1967
1968	---	6.88 ON AUG 5	0.142B ON MAR 1	---	1968
1969	---	27.2 ON JUL 1	0.142B ON MAR 1	---	1969
1970	---	60.3 ON MAY 11 *	0.348 ON SEP 11	---	1970
1971	---	14.7 ON JUN 12	0.212B ON MAR 1	---	1971
1972	13.1 AT 18:09 CST ON APR 30	13.0 ON APR 30	0 B ON DEC 17	51 500	1972
1973	6.48 AT 18:23 CST ON JUN 24	6.43 ON JUN 24	0 B ON JAN 1	34 100	1973
1974	21.9 AT 21:05 CST ON MAY 14	21.1 ON APR 30	0.193 ON AUG 27	76 100	1974
1975	52.1 AT 17:40 CST ON SEP 21 *	47.9 ON SEP 22	0.193B ON APR 3	102 000	1975
1976	19.8 AT 21:29 CST ON APR 17	19.5 ON APR 17	0.037 ON OCT 5	67 200	1976
1977	8.90 AT 03:15 CST ON JUL 17	8.86 ON JUL 17	0.071B ON JAN 17	29 400	1977
1978	8.52 AT 23:59 CST ON APR 30	8.44 ON MAY 1	0.003 ON SEP 12	30 900	1978
1979	31.8 AT 07:06 CST ON MAY 20	31.6 ON MAY 20	0.046 ON OCT 1	80 700	1979
1980	5.06 AT 04:25 CST ON AUG 27	4.98 ON AUG 27	0.108 ON AUG 3	33 700	1980
1981	7.29B AT 19:58 CST ON APR 6	6.84B ON APR 6	0.004 ON SEP 21	29 100	1981
1982	12.7 B AT 22:38 CST ON APR 19	12.3 ON APR 22	0.001B ON FEB 16	36 300	1982
MEAN				47 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER AT DOMINION CITY - STATION NO. 05OD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	5.67	1.70	3.21	5.26	30.0	22.5	6.80	---	1912
MEAN	---	---	---	---	---	5.67	1.70	3.21	5.26	30.0	22.5	6.80	---	MEAN

LOCATION - LAT 49 08 50 N DRAINAGE AREA, 5 590 km²
LONG 97 09 00 W NATURAL FLOW

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	22.0	19.3	23.8	4.87	0.676	1.47	1.78	0.858	---	1915
1916	0.227	0.170	0.255	41.2	59.7	19.8	5.82	2.77	2.37	2.59	2.43	0.113	16.7	1916
1917	0.391	0.312	0.505	12.8	16.2	2.75	2.56	1.24	0.468	0.899	1.88	0.518	4.67	1917
1918	0.045	0	---	---	4.18	6.59	2.60	1.41	0.972	1.56	3.36	1.42	---	1918
1919	0.821	0.368	0.736	---	8.86	9.88	44.5	15.8	2.41	1.99	1.72	0.926	---	1919
1920	0.334	0.371	---	24.1	10.8	11.2	1.00	0.124	0.403	1.21	0.663	0.201	---	1920
1921	0.127	0.227	---	21.0	9.23	4.97	1.17	0.962	1.88	1.89	0.631	0.510	---	1921
1922	0.173	0.085	---	16.6	24.0	13.8	3.03	1.39	4.94	---	4.13	1.07	---	1922
1962	0.204	0.232	---	17.8	40.6	58.8	30.9	23.5	8.66	0.294	3.57	2.38	---	1962
1963	0.289	0.235	2.10	36.2	20.2	23.3	8.09	1.48	0.251	0.699	0.767	0.187	11.6	1963
1964	0.034	0.024	0	16.7	21.8	20.3	23.3	2.39	2.69	18.1	8.81	1.06	13.2	1964
1965	0.082	0.037	0	37.1	70.1	42.2	23.5	2.56	5.51	17.6	15.7	7.78	24.8	1965
1966	3.11	1.78	9.54	70.6	79.1	33.4	16.8	4.57	3.70	1.42	1.31	1.55	28.4	1966
1967	0.348	0.136	0.661	55.4	66.3	21.4	3.18	0.240	0.011	0.021	0.275	0.513	18.3	1967
1968	0.204	0.051	0.725	19.7	5.61	32.8	48.8	46.3	44.9	17.6	11.6	2.94	27.0	1968
1969	0.799	0.631	0.998	46.8	62.0	20.3	4.02	3.82	1.71	3.79	2.84	1.71	17.9	1969
1970	1.20	0.662	0.488	23.9	88.5	78.6	37.9	1.59	3.39	2.24	7.16	1.43	29.5	1970
1971	0.147	0.149	0.436	34.8	26.6	8.84	3.68	1.24	0.657	3.45	9.58	1.86	9.90	1971
1972	0.607	0.315	1.71	24.0	32.8	9.92	1.64	0.616	0.435	1.13	1.06	0.202	9.08	1972
1973	0.176	0.167	6.23	2.70	3.34	2.10	0.800	2.17	4.58	15.9	6.31	1.31	4.74	1973
1974	0.439	0.385	0.432	25.4	80.0	56.8	5.38	13.5	13.1	3.91	2.87	1.03	24.7	1974
1975	0.609	0.711	0.817	15.9	65.5	33.1	36.9	3.62	0.864	0.569	0.949	0.413	19.7	1975
1976	---	---	0.425	28.7	7.57	3.78	2.64	0.357	0.177	0.453	---	---	5.45	1976
1977	---	---	0.407	4.75	1.70	1.90	1.70	0.347	1.05	5.00	---	---	2.10	1977
1978	---	---	0.261	30.0	43.2	5.64	11.1	5.40	4.43	1.74	---	---	12.7	1978
1979	---	---	0.378	19.5	74.6	34.8	3.16	0.453	0.237	0.162	---	---	16.7	1979
1980	---	---	0.258	18.0	2.66	0.240	0.028	0.029	0.146	0.656	---	---	2.72	1980
1981	---	---	2.68	1.57	1.55	9.43	8.34	2.00	3.82	10.5	---	---	4.99	1981
1982	---	---	0.670	29.3	36.2	8.79	8.39	3.68	1.26	17.4	---	---	13.2	1982
MEAN	0.494	0.336	1.34	25.9	34.0	20.9	12.5	5.12	3.99	4.79	4.06	1.35	14.4	MEAN

LOCATION - LAT 49 05 16 N DRAINAGE AREA, 4 430 km^2
LONG 96 41 15 W NATURAL FLOW

REMARKS - MONTHLY MEANS FOR SEVERAL PERIODS WERE OBTAINED BY LANGBEIN CORRELATION WITH "ROSEAU RIVER NEAR DOMINION CITY"

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	89.8 ON APR 30	0.057 ON AUG 2	355 000	1916
1917	---	26.8 ON APR 28	0.113 ON SEP 19	98 000	1917
1918	---	---	---	---	1918
1919	---	66.3 ON JUL 21	---	---	1919
1920	---	50.1 ON APR 16	0 ON AUG 21 *	---	1920
1921	---	48.4 ON APR 16	---	---	1921
1922	---	35.7 ON MAY 29	---	---	1922
1962	---	71.9 ON JUN 15	0 ON OCT 16	---	1962
1963	---	43.3 ON APR 28	0 B ON MAR 1	242 000	1963
1964	---	37.7 ON JUL 4	0 B ON MAR 1	279 000	1964
1965	---	85.8 ON MAY 6	0 B ON MAR 1	524 000	1965
1966	---	101 ON MAY 4	1.13 ON OCT 12	602 000	1966
1967	---	79.0 ON APR 21	0 B ON MAR 1	387 000	1967
1968	---	57.8 ON JUN 30	0.142B ON MAR 1	571 000	1968
1969	---	83.8A ON APR 29	0.903B ON MAR 1	378 000	1969
1970	103 AT 15:00 CST ON MAY 16 *	102 ON MAY 16 *	0.283B ON APR 12	625 000	1970
1971	53.5 AT 00:38 CST ON APR 21	53.2 ON APR 21	0.326B ON MAR 11	209 000	1971
1972	---	47.6 ON MAY 1	0.283E ON SEP 1	191 000	1972
1973	---	21.2 ON OCT 2	0.255B ON MAR 1	100 000	1973
1974	96.3 AT 13:00 CST ON MAY 21	95.1 ON MAY 21	0.408B ON MAR 17	523 000	1974
1975	72.8 AT 00:33 CST ON MAY 10	72.5 ON MAY 9	0.422 ON OCT 2	418 000	1975
1976	44.7B AT 21:21 CST ON APR 6	40.2 ON APR 7	0.093 ON SEP 26	115 000	1976
1977	14.6B AT 16:22 CST ON APR 10	10.5B ON APR 10	0.142B ON MAR 1	44 500	1977
1978	63.1 AT 18:08 CST ON APR 27	62.6 ON APR 27	0.232B ON MAR 1	269 000	1978
1979	90.6 AT 11:43 CST ON MAY 12	89.0 ON MAY 12	0.003 ON OCT 1	353 000	1979
1980	43.0 AT 03:33 CST ON APR 14	39.5B ON APR 14	0 ON JUL 10	57 400	1980
1981	19.0 AT 11:10 CST ON JUL 4	18.[illegible] ON JUL 4	0.482 ON SEP 5	106 000	1981
1982	---	47.2A ON MAY 4	0.286B ON MAR 26	280 000	1982
MEAN				306 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER AT STUARTBURN - STATION NO. 05OD014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1924	---	---	---	---	21.2	5.85	2.27	6.13	2.83	6.53	---	---	---	1924
1925	---	---	---	27.7	14.2	42.0	45.8	3.36	4.14	6.31	---	---	---	1925
1926	---	---	---	15.6	5.27	17.3	33.6	4.59	7.54	19.0	---	---	---	1926
1927	---	---	---	62.3	78.0	55.5	14.1	1.43	2.67	3.74	4.25	---	---	1927
1928	---	---	---	9.90	8.27	20.1	45.7	17.6	6.03	3.77	---	---	---	1928
1929	---	---	---	15.8 R	5.28R	5.28R	2.12 R	0.220	0.278	---	---	---	---	1929
1930	---	---	---	---	19.8	6.28	10.9	0.524R	0.165	---	---	---	---	1930
1934	---	---	---	5.92R	1.86	1.37	0.472	0.051	0.047	0.938	---	---	---	1934
1935	---	---	---	15.2 R	8.44	2.50	3.29	1.29	1.29	0.726	---	---	---	1935
1936	---	---	---	12.6 R	17.3	2.69	0.294	0.004	0.521	---	---	---	---	1936
1962	---	---	0	13.3	42.7	60.5	27.3	24.8	10.4	1.86	---	---	22.5	1962
1963	---	---	2.09	36.5	23.6	24.9	8.42	1.52	0.250	0.699	---	---	12.1	1963
1964	---	---	0	18.2	25.9	22.2	24.3	2.50	2.84	23.1	---	---	16.9	1964
1965	---	---	0	37.4	71.3	42.6	24.4	3.88	7.43	22.6	---	---	26.2	1965
1966	---	---	10.5	75.5	87.9	46.6	16.7	5.31	4.62	1.97	---	---	31.0	1966
1967	---	---	0.711	58.3	68.3	23.3	3.70	0.563	0.034	0.049	---	---	19.3	1967
1968	---	---	0.738	20.7	5.36	32.8	50.8	48.7	47.4	20.6	---	---	28.3	1968
1969	---	---	0.998	45.8	63.7	20.6	3.97	4.05	1.90	4.44	---	---	18.2	1969
MEAN	---	---	1.88	29.4 R	31.6 R	24.0 R	17.7 R	7.03 R	5.53	7.76	4.25	---	21.6	MEAN

LOCATION - LAT 49 07 57 N DRAINAGE AREA, 4 450 km²
LONG 96 46 09 W NATURAL FLOW

R - REVISED SINCE JAN 1980

ROSEAU RIVER AT STUARTBURN - STATION NO. 05OD014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1924	---	---	---	---	1924
1925	---	65.4 ON JUL 3	---	---	1925
1926	---	47.3 ON JUL 9	---	---	1926
1927	---	116 ON MAY 24	---	---	1927
1928	---	51.3 ON JUL 6	---	---	1928
1929	---	28.9R ON APR 11	---	---	1929
1930	---	---	---	---	1930
1934	---	---	0 ON SEP 17 *	---	1934
1935	---	---	0.368 ON AUG 11	---	1935
1936	---	---	0 ON AUG 6	---	1936
1962	---	75.0 ON JUN 16	0 B ON MAR 1	477 000	1962
1963	---	47.9 ON APR 26	0 B ON MAR 1	257 000	1963
1964	---	39.6 ON JUN 24	0 B ON MAR 1	315 000	1964
1965	---	94.0 ON MAY 6	0 B ON MAR 1	554 000	1965
1966	---	116 ON MAY 4 *	0.985 ON SEP 30	656 000	1966
1967	---	84.4 ON APR 21	0 B ON MAR 1	408 000	1967
1968	---	63.1 ON JUL 2	0.142B ON MAR 1	599 000	1968
1969	---	83.5 ON MAY 1	0.903B ON MAR 1	385 000	1969
MEAN				456 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO. 05OD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	18.4	19.8	19.8	9.71	2.52	4.96	8.18	7.93	1.84	---	1914
1915	0.283	0.227	0.425	10.2	21.7	19.9	27.4	5.32	0.732	1.50	2.55	1.27	7.68	1915
MEAN	0.283	0.227	0.425	14.3	20.8	19.9	18.6	3.92	2.85	4.84	5.24	1.56	7.68	MEAN

LOCATION - LAT 49 08 55 N DRAINAGE AREA, 5 590 km²
LONG 97 10 00 W NATURAL FLOW

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO. 05OD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	36.2 ON JUL 11 *	0.227B ON FEB 1 *	242 000	1915
MEAN				242 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05OD030

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	20.4	13.0	1.71	1.61	0.485	0.581	---	---	---	---	1917
1920	---	---	---	17.5	10.9	11.0	1.30	0.481	0.651	0.917	0.906	0.507	---	1920
1921	0.340	0.311	0.283	27.4	8.20	3.39	0.815	0.796	1.86	1.48	0.993	0.566	3.85	1921
1922	0.510	0.425	0.566	14.1	25.7	11.4	2.66	1.33	4.80	1.86	4.99	1.80	5.86	1922
1923	1.02	0.850	1.02	20.1	53.0	3.09	2.92	1.05	0.865	1.27	1.14	0.934	7.37	1923
1924	0.850	1.67	2.94	14.9	19.5	5.26	2.15	5.52	1.75	6.17	4.03	1.20	5.51	1924
1925	1.19	1.29	6.45	27.3	13.3	42.7	43.1	2.11	3.67	5.00	7.52	2.43	13.1	1925
1926	1.50	1.06	4.10	12.2	4.71	20.6	33.5	2.05	4.91	13.0	10.0	6.41	9.73	1926
1927	3.79	2.13	5.55	57.8	71.8	46.0	10.1	1.18	1.25	2.56	4.25	1.56	17.4	1927
1928	1.13	0.855	3.21	11.7	4.91	19.0	42.9	10.9	3.58	1.95	1.98	1.03	8.70	1928
1929	0.583	0.473	6.30	15.7	5.63	5.32	1.93	0.445	0.477	0.779	0.985	0.353	3.25	1929
1930	0.203	0.227	0.425	16.0	28.3	7.03	13.3	0.768	0.318	0.763	2.20	---	---	1930
1931	---	---	---	13.2	6.03	2.89	1.30	0.474	0.463	0.880	2.54	---	---	1931
1932	---	---	---	29.8	17.7	2.63	2.36	0.486	1.17	2.20	4.67	1.90	---	1932
1933	0.845	0.493	0.707	25.3	12.4	7.85	0.285	0.112	0.190	0.254	0.302	---	---	1933
1934	---	---	---	4.68	1.73	1.39	0.562	0.123	0.170	0.639	---	---	---	1934
1935	---	---	---	13.7	7.71	2.55	3.04	1.52	1.23	0.755	---	---	---	1935
1936	---	---	---	11.9	15.6	3.25	0.251	0.059	0.433	0.281	0.253	0.148	---	1936
1937	0.170	0.170	0.283	12.2	31.2	9.20	0.41	23.6	2.15	1.02	0.847	0.349	7.55	1937
1938	---	---	0.31	9.98	35.5	23.2	1.54	0.287	0.160	0.229	---	---	---	1938
1939	---	---	---	3.07	2.30	2.73	0.702	0.160	0.301	0.417	---	---	---	1939
1940	---	---	---	6.76	4.00	1.50	0.319	0.712	0.811	0.742	3.85	1.27	---	1940
1941	0.826	0.574	0.426	27.8	22.1	18.7	4.09	0.202	9.07	36.9	0.22	1.02	10.8	1941
1942	0.303	0.389	5.36	49.9	42.8	13.6	0.971	4.59	10.9	3.69	1.24	0.507	11.8	1942
1943	0.366	0.356	0.481	32.5	31.0	31.9	25.4	2.82	1.79	---	---	---	---	1943
1944	---	---	---	13.8	8.76	26.8	19.8	8.01	8.61	---	---	---	---	1944
1945	---	---	---	46.0	32.2	6.69	7.72	4.65	16.9	11.5	3.31	---	---	1945
1946	---	---	12.6	39.8	17.9	2.36	3.13	0.490	0.545	0.994	0.896	---	---	1946
1947	---	---	---	12.1	12.4	32.3	21.7	8.16	3.32	8.66	---	---	---	1947
1948	---	---	---	27.6	58.0	8.89	7.75	12.2	0.843	0.551	---	---	---	1948
1949	---	---	0.649	20.1	20.7	5.85	2.10	2.53	0.526	---	---	---	---	1949
1950	---	---	---	9.85	85.8	59.0	36.9	8.62	16.2	22.4	---	---	---	1950
1951	---	---	---	41.0	51.8	7.33	1.18	1.72	4.21	3.82	---	---	---	1951
1952	---	---	---	15.6	3.61	2.34	7.44	1.66	0.506	0.404	---	---	---	1952
1953	---	---	---	8.01	8.26	12.2	3.88	0.628	1.46	1.02	---	---	---	1953
1954	---	---	---	17.3	27.7	19.9	2.10	0.460	0.508	0.488	---	---	---	1954
1955	---	---	---	21.3	16.6	24.6	5.32	0.664	0.740	2.59	---	---	---	1955
1956	---	---	---	22.8	55.1	24.4	28.2	7.37	21.4	2.52	---	---	---	1956
1957	---	---	---	29.3	27.5	23.3	45.5	11.0	25.9	15.1	10.6	---	---	1957
1958	---	---	---	4.99	2.46	1.79	16.5	2.06	0.367	1.23	---	---	---	1958
1959	---	---	---	33.2	25.7	14.9	5.04	1.46	1.69	5.57	---	---	---	1959
1960	---	---	---	28.8	24.1	11.9	4.78	0.890	0.393	---	---	---	---	1960
1961	---	---	---	9.03	7.00	0.956	0.174	0.090	1.12	1.52	---	---	---	1961
1962	---	---	---	15.1	35.7	53.3	25.5	26.8	10.9	---	---	---	---	1962
1963	---	---	---	34.6	20.9	23.8	8.63	1.58	0.355	0.763	---	---	---	1963
1964	---	---	---	16.8	22.9	23.0	22.6	2.00	4.56	18.7	---	---	---	1964
1965	---	---	---	34.7	65.7	39.5	23.5	3.67	7.94	19.2	---	---	---	1965
1966	---	---	---	61.4	73.5	37.7	14.5	4.27	3.10	1.79	2.14	---	---	1966
1967	---	---	---	47.0	63.3	20.4	3.15	0.466	0.049	0.054	0.104	---	---	1967
1968	---	---	---	18.9	4.41	32.6	46.8	44.7	41.1	16.9	---	---	---	1968
1969	---	---	---	40.2	55.7	17.7	3.61	3.80	2.01	4.24	---	---	---	1969
1970	---	---	---	23.9	78.4	73.3	34.2	1.26	3.04	2.26	---	---	---	1970
1971	---	---	---	33.1	23.7	7.87	3.78	1.24	0.750	3.34	---	---	---	1971
1972	---	---	---	22.6	31.6	9.82	1.51	0.489	0.596	0.992	1.30	0.448	---	1972
1973	0.278	0.248	6.67	2.76	3.07	2.24	0.971	2.34	5.31	14.2	4.03	1.14	3.64	1973
1974	0.441	0.380	0.394	23.6	73.6	35.6	4.97	14.8	12.9	3.56	3.07	1.27	16.3	1974
1975	0.820	0.711	0.521	16.9	66.0	31.4	34.8	2.89	0.838	0.556	0.918	0.579	13.2	1975
1976	0.497	0.464	0.535	28.2	6.40	3.64	2.57	0.277	0.163	0.389	0.394	0.181	3.61	1976
1977	0.107	0.122	0.385	4.44	1.41	1.61	1.60	0.301	1.30	4.03	5.70	3.47	2.08	1977
1978	1.22	0.398	0.195	30.9	42.7	5.25	11.4	5.63	4.77	1.68	1.00	0.672	8.86	1978
1979	0.489	0.348	0.534	19.7	74.8	31.7	3.33	0.479	0.247	0.104	0.624	0.458	11.1	1979
1980	0.431	0.387	0.396	17.2	2.24	0.190	0.018	0.077	0.169	0.704	1.14	0.325	1.92	1980
1981	0.112	0.530	2.09	1.08	1.53	10.2	8.75	1.68	3.68	11.4	6.16	2.60	4.17	1981
1982	0.415	0.385	0.590	23.2	34.6	7.99	8.09	3.63	1.08	16.7	7.17	2.34	8.91	1982
MEAN	0.760	0.610	2.57	22.2	27.5	16.8	10.8	4.03	4.24	4.94	3.15	1.32	8.12	MEAN

LOCATION - LAT 48 58 54 N DRAINAGE AREA, 4 120 km² INTERNATIONAL GAUGING STATION
LONG 96 27 46 W NATURAL FLOW

REMARKS - PUBLISHED AS "AT CARIBOU" PRIOR TO APR 1929 AND AS "BELOW CUTOFF DITCH NEAR CARIBOU" FROM APR 1929-SEP 1936

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05OD030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1917	41.6 ON APR 17	38.8 ON APR 17	---	---	1917
1920	48.7 B ON APR 15	45.3 B ON APR 15	---	---	1920
1921	---	56.1 ON APR 11	0.283B ON MAR 1	122 000	1921
1922	---	38.5 ON MAY 25	0.425B ON FEB 1	185 000	1922
1923	---	84.4 ON MAY 1	0.623 ON SEP 2	232 000	1923
1924	---	34.8 ON APR 29	0.453B ON DEC 18	174 000	1924
1925	---	60.6 ON JUL 1	0.793B ON JAN 1	413 000	1925
1926	---	53.8 ON JUL 6	0.878B ON MAR 13	307 000	1926
1927	89.8 ON MAY 24	89.5 ON MAY 24	0.793 ON AUG 26	549 000	1927
1928	---	47.3 ON JUL 6	0.736B ON DEC 8	275 000	1928
1929	---	27.8 ON APR 10	0.311 ON AUG 30	102 000	1929
1930	---	39.1 ON MAY 20	---	---	1930
1931	32.3 ON APR 9	31.1 ON APR 9	---	---	1931
1932	---	48.4 ON APR 16	---	---	1932
1933	---	38.2 B ON APR 17	---	---	1933
1934	12.0 B AT 13:00 CST ON APR 13	10.7 B ON APR 13	---	---	1934
1935	26.1 B AT 10:00 CST ON APR 13	22.7 B ON APR 18	---	---	1935
1936	---	28.9 ON APR 27	---	---	1936
1937	---	38.5 ON MAY 11	0.170B ON JAN 1	238 000	1937
1938	---	49.6 ON MAY 25	---	---	1938
1939	9.63B AT 09:00 CST ON APR 20	7.36B ON APR 20	---	---	1939
1940	23.6 B ON APR 22	22.7 B ON APR 22	---	---	1940
1941	---	47.0 ON APR 24	0.142 ON AUG 12	342 000	1941
1942	---	58.6 ON APR 13	0.198B ON JAN 15	374 000	1942
1943	---	48.1 ON APR 21	---	---	1943
1944	---	36.0 ON JUN 27	---	---	1944
1945	---	49.8 ON APR 12	---	---	1945
1946	44.2 AT 15:30 CST ON APR 14	43.0 ON APR 5	---	---	1946
1947	---	50.4 ON JUN 28	---	---	1947
1948	---	69.7 ON MAY 2	---	---	1948
1949	---	41.9 ON APR 24	---	---	1949
1950	116 AT 20:30 CST ON MAY 19 *	114 ON MAY 19 *	---	---	1950
1951	62.3 AT 16:00 CST ON MAY 2	62.0 ON MAY 2	---	---	1951
1952	---	30.3 ON APR 12	---	---	1952
1953	22.6 AT 06:00 CST ON JUN 5	22.5 ON JUN 5	---	---	1953
1954	---	32.8 ON MAY 9	---	---	1954
1955	---	30.6 ON JUN 13	---	---	1955
1956	---	65.1 ON MAY 2	---	---	1956
1957	50.7 AT 11:00 CST ON JUL 12	50.4 ON JUL 19	---	---	1957
1958	24.8 AT 12:00 CST ON JUL 20	24.7 ON JUL 20	---	---	1958
1959	---	44.5 ON APR 20	---	---	1959
1960	46.7 AT 20:00 CST ON APR 27	46.4 ON APR 26	---	---	1960
1961	17.3 B ON MAR 29	17.0 B ON MAR 30	---	---	1961
1962	58.6 AT 03:30 CST ON JUN 11	58.3 ON JUN 11	---	---	1962
1963	---	42.8 ON APR 25	---	---	1963
1964	---	40.5 ON JUL 1	---	---	1964
1965	76.2 AT 10:15 CST ON MAY 6	75.9 ON MAY 6	---	---	1965
1966	88.3 AT 21:00 CST ON APR 28	88.1 ON APR 28	---	---	1966
1967	68.2 AT 02:00 CST ON MAY 12	68.0 ON MAY 11	---	---	1967
1968	---	52.7 ON JUL 2	---	---	1968
1969	70.2 AT 15:00 CST ON APR 28	69.9 ON APR 28	---	---	1969
1970	83.3 AT 15:00 CST ON MAY 15	83.0 ON MAY 15	---	---	1970
1971	49.3 AT 19:00 CST ON APR 21	49.0 ON APR 20	---	---	1971
1972	47.9 AT 02:00 CST ON MAY 2	47.6 ON APR 30	---	---	1972
1973	---	20.5 ON OCT 1	0.227B ON FEB 11	115 000	1973
1974	77.0 ON MAY 14	76.5 ON MAY 28	0.368B ON FEB 13	513 000	1974
1975	---	71.9 ON MAY 8	0.311 ON OCT 11	416 000	1975
1976	37.7 AT 00:30 CST ON APR 6	37.4 ON APR 8	0.091 ON SEP 29	114 000	1976
1977	10.8 B ON APR 10	10.3 B ON APR 10	0.099B ON JAN 17	65 500	1977
1978	64.0 AT 12:30 CST ON APR 26	62.9 ON APR 27	0.164B ON MAR 14	279 000	1978
1979	84.4 ON MAY 8	84.1 ON MAY 8	0.057 ON OCT 15	351 000	1979
1980	29.7 AT 15:00 CST ON APR 14	29.7 ON APR 14	0.001 ON AUG 3 *	60 800	1980
1981	21.0 AT 13:00 CST ON JUL 4	20.9 ON JUL 4	0.099B ON JAN 11	131 000	1981
1982	47.1 AT 18:30 CST ON MAY 1	47.0 ON APR 30	0.340B ON JAN 18	281 000	1982
				256 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	0.566	0	0	32.9	19.1	6.42	4.91	1.93	1.60	2.35	2.42	1.13	6.10	1913
1914	0.178	0.142	0.708	16.1	17.7	17.0	8.44	2.12	---	---	---	---	---	1914
1916	---	---	---	---	---	---	5.32	2.98	2.79	2.72	2.31	0.396	---	1916
1917	0.500	0.333	0.635	13.1	15.0	2.46	2.13	0.840	0.517	0.642	2.53	0.713	3.29	1917
1918	0.090	0	0.763	4.92	3.75	6.13	3.41	1.34	0.805	1.45	4.02	1.67	2.36	1918
1919	0.954	0.526	0.870	19.0	9.69	9.59	46.0	19.0	3.46	2.84	1.98	1.21	9.75	1919
1920	0.532	0.528	1.62	31.1	12.2	13.0	1.61	0.372	0.480	1.25	0.847	0.311	5.29	1920
1921	0.227	0.340	0.651	24.1	10.8	4.96	1.21	1.02	1.75	1.95	0.801	0.716	4.03	1921
1922	0.299	0.142	0.462	16.9	23.7	15.2	2.95	1.56	4.06	2.18	4.32	1.38	6.17	1922
1923	0.868	0.884	0.432	18.4	58.3	5.76	4.24	1.08	1.20	2.01	2.06	0.954	8.12	1923
1924	0.090	0.030	0.113	18.6	23.4	6.18	2.39	5.44	2.11	6.64	2.71	0.730	5.72	1924
1925	0.240	0.259	3.88	27.9	15.1	48.4	44.7	4.38	5.21	7.08	4.12	1.20	13.6	1925
1926	0.484	0.292	2.55	16.9	5.14	17.0	33.8	5.06	10.4	23.8	9.66	2.97	10.7	1926
1927	2.00	1.40	7.29	64.2	87.4	56.4	15.0	2.38	2.66	4.23	---	---	---	1927
1928	---	---	---	7.92	7.12	17.2	41.8	15.8	4.99	3.63	---	---	---	1928
1929	---	---	---	17.8	5.83	5.74	2.03	0.463	0.390	0.661	---	---	---	1929
1930	---	---	---	17.6	29.5	8.08	13.9	0.961	0.216	0.938	---	---	---	1930
1931	---	---	---	13.4	6.42	3.56	1.41	0.538	0.601	1.00	3.14	---	---	1931
1932	---	---	---	32.8	22.4	3.58	3.27	0.393	1.29	2.31	---	---	---	1932
1933	---	---	---	27.8	15.4	11.6	0.416	0.047	0.121	0.257	---	---	---	1933
1934	---	---	---	5.45	1.85	1.13	0.553	0.025	0.036	0.668	---	---	---	1934
1935	---	---	---	15.2	8.93	2.60	3.05	1.41	1.39	0.817	---	---	---	1935
1936	---	---	---	11.0	17.9	2.93	0.259	0.001	0.293	0.196	---	---	---	1936
1937	---	---	---	13.2	36.2	10.7	7.25	26.7	3.13	1.38	---	---	---	1937
1938	---	---	---	10.1	33.6	27.7	2.10	0.442	0.161	0.235	---	---	---	1938
1939	---	---	---	3.61	3.04	2.94	0.918	0.031	0.169	0.464	0.399	---	---	1939
1940	---	---	---	6.06	5.50	1.41	0.248	0.393	0.683	0.714	---	---	---	1940
1941	---	---	---	26.1	25.1	10.0	5.41	0.282	7.96	41.8	---	---	---	1941
1942	---	---	---	55.5	44.7	17.6	1.16	3.63	19.6	4.58	---	---	---	1942
1943	---	---	---	34.6	34.6	33.8	20.3	2.84	1.57	0.780	---	---	---	1943
1944	---	---	---	14.8	9.25	20.4	23.0	10.4	17.2	3.51	17.5	---	---	1944
1945	---	---	---	54.1	40.5	8.19	6.97	4.21	18.5	13.7	---	---	---	1945
1946	---	---	14.4	44.2	19.3	3.01	3.15	0.394	0.006	1.52	---	---	---	1946
1947	---	---	---	16.0	13.3	32.8	24.9	9.20	4.14	13.4	---	---	---	1947
1948	---	---	---	37.1	60.4	13.1	10.6	14.5	1.38	0.367	0.728	0.512	---	1948
1949	0.498	0.439	0.409	28.0	23.4	6.68	2.06	3.75	0.524	3.52	6.05	1.65	6.42	1949
1950	0.662	0.539	0.601	21.6	143	61.3	40.1	11.0	16.2	27.6	7.87	2.48	28.0	1950
1951	1.38	0.916	1.79	45.9	57.5	10.9	1.10	1.50	4.08	3.81	1.90	1.07	11.8	1951
1952	0.400	0.403	0.468	13.6	4.48	2.54	7.04	1.67	0.381	0.391	0.595	0.465	2.69	1952
1953	0.280	0.358	1.78	9.20	8.49	15.3	4.43	0.751	1.13	1.66	1.49	0.586	3.79	1953
1954	0.357	0.413	0.817	18.6	31.2	27.1	3.43	0.573	0.675	0.635	0.485	0.442	7.06	1954
1955	0.323	0.210	0.196	31.3	20.4	28.8	7.42	0.950	0.727	3.21	1.90	0.983	8.01	1955
1956	0.611	0.603	0.287	30.5	59.7	29.0	24.8	8.74	26.2	3.30	22.8	4.11	17.5	1956
1957	0.638	0.480	6.58	41.7	32.7	28.2	58.1	15.5	26.1	16.4	13.0	2.13	20.2	1957
1958	0.753	0.623	1.40	5.54	2.97	2.10	15.9	2.84	0.482	1.09	3.44	2.42	3.31	1958
1959	0.838	0.413	0.477	36.0	29.7	21.5	5.42	1.61	1.62	5.99	4.73	0.640	9.08	1959
1960	0.362	0.356	0.205	38.8	27.7	11.6	4.77	1.25	0.570	0.360	2.08	0.256	7.33	1960
1961	0.141	0.042	2.29	10.6	7.74	1.11	0.265	0.103	0.872	2.10	1.08	0.396	2.23	1961
1962	0.346	0.349	0.132	16.7	42.5	58.8	28.4	23.5	13.3	3.18	3.79	2.72	16.2	1962
1963	0.469	0.351	4.00	38.4	23.9	29.0	12.2	3.09	0.880	0.777	0.967	0.293	9.51	1963
1964	0.071	0.047	0.127	19.4	26.8	24.1	24.8	4.19	4.22	19.4	8.44	1.37	11.1	1964
1965	0.152	0.067	0.092	43.7	71.6	46.0	26.6	5.51	8.28	23.5	14.1	7.96	20.7	1965
1966	3.88	2.13	5.99	92.8	97.1	48.9	19.6	4.49	8.27	1.75	1.55	1.92	24.1	1966
1967	0.555	0.217	1.39	73.3	76.3	25.2	3.89	0.677	0.080	0.294	0.388	0.718	15.3	1967
1968	0.345	0.090	0.601	18.8	5.53	31.7	51.6	45.7	47.0	19.0	10.7	3.40	19.5	1968
1969	1.16	0.846	1.01	45.9	59.5	20.3	4.25	3.57	2.03	4.26	3.07	1.46	12.3	1969
1970	0.994	0.614	0.548	28.5	93.2	81.2	39.1	2.00	3.26	2.12	7.34	1.50	21.8	1970
1971	0.687	0.424	0.621	35.9	27.7	10.3	3.70	1.24	0.627	2.98	11.2	2.41	8.15	1971
1972	0.873	0.490	1.25	22.9	33.6	10.2	2.03	0.600	0.800	1.09	0.890	0.251	6.22	1972
1973	0.301	0.261	6.88	3.16	3.64	2.48	1.07	2.35	4.98	17.1	5.28	1.65	4.21	1973
1974	0.678	0.547	0.482	37.4	100	64.3	7.50	13.3	14.6	3.89	3.22	1.34	20.7	1974
1975	0.913	0.939	0.656	18.4	64.8	33.3	37.2	3.74	0.787	0.799	1.17	0.595	13.7	1975
1976	0.506	0.274	0.394	27.6	6.94	3.26	2.72	0.288	0.107	0.247	0.322	0.087	3.54	1976
1977	0.055	0.086	0.404	4.16	1.27	1.61	1.58	0.394	0.986	5.05	4.38	3.62	1.97	1977
1978	1.52	0.507	0.743	34.1	46.5	6.11	10.1	6.08	4.44	1.71	1.32	0.602	9.53	1978
1979	0.500	0.362	0.478	31.7	85.9	39.9	3.16	0.708	0.308	0.179	0.569	0.453	13.8	1979
1980	0.386	0.335	0.290	19.4	2.94	0.337	0.097	0.004	0.453	1.36	0.990	0.307	2.21	1980
1981	0.310	0.503	2.71	2.17	1.39	9.36	8.37	1.91	3.43	11.0	6.26	2.68	4.18	1981
1982	0.585	0.552	1.97	30.4	40.2	11.6	9.75	3.92	1.91	10.6	9.76	4.40	11.2	1982
MEAN	0.629	0.440	1.72	25.7	30.9	18.6	12.0	4.65	4.74	5.30	4.47	1.52	10.0	MEAN

LOCATION - LAT 49 11 53 N DRAINAGE AREA, 5 150 km²
LONG 97 03 15 W NATURAL FLOW

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	56.1 ON APR 25	0 E ON FEB 1 *	193 000	1913
1914	---	24.5 ON APR 30	---	---	1914
1916	---	---	---	---	1916
1917	---	30.3B ON APR 29	0.071 ON SEP 22	104 000	1917
1918	---	10.9 ON JUN 1	0 B ON JAN 26	74 500	1918
1919	---	72.2 ON JUL 23	0.227B ON FEB 28	307 000	1919
1920	---	61.2B ON APR 18	0.142 ON AUG 27	167 000	1920
1921	---	56.0 ON APR 16	0.227B ON JAN 1	127 000	1921
1922	---	34.5 ON MAY 30	0.113B ON FEB 7	194 000	1922
1923	---	81.0 ON MAY 4	0.255B ON MAR 19	256 000	1923
1924	---	55.2 ON APR 27	0 B ON JAN 20	181 000	1924
1925	---	60.3 ON JUN 21	0.170B ON JAN 16	428 000	1925
1926	---	46.2 ON JUL 9	0.241B ON MAR 14	338 000	1926
1927	---	142 ON MAY 10	---	---	1927
1928	---	49.0 ON JUL 7	---	---	1928
1929	---	28.6 ON APR 12	---	---	1929
1930	---	40.8 ON MAY 21	---	---	1930
1931	---	35.7 ON APR 9	---	---	1931
1932	---	54.7 ON APR 16	---	---	1932
1933	---	47.0 ON APR 18	---	---	1933
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	30.3 ON MAY 2	0 ON AUG 6	---	1936
1937	---	48.6 ON MAY 2	---	---	1937
1938	---	49.6 ON MAY 29	---	---	1938
1939	---	---	---	---	1939
1940	---	22.2 ON APR 24	---	---	1940
1941	---	50.1 ON OCT 10	---	---	1941
1942	---	69.9 ON APR 4	---	---	1942
1943	---	49.6 ON APR 24	---	---	1943
1944	---	41.3 ON SEP 5	---	---	1944
1945	---	59.7 ON MAR 28	---	---	1945
1946	---	48.7 ON APR 7	---	---	1946
1947	---	51.5 ON JUN 30	---	---	1947
1948	---	81.3 ON APR 21	---	---	1948
1949	---	43.6 ON APR 28	0.275 ON OCT 4	203 000	1949
1950	---	230 ON MAY 6 *	0.481B ON JAN 30	882 000	1950
1951	---	73.9 ON MAY 2	0.340 ON AUG 3	347 000	1951
1952	---	26.9B ON APR 16	0.198 ON SEP 27	85 200	1952
1953	---	33.7 ON JUN 5	0.198B ON JAN 16	119 000	1953
1954	---	49.6 ON APR 30	0.255B ON NOV 8	223 000	1954
1955	---	47.0 ON APR 23	0.085 ON MAR 23	253 000	1955
1956	---	87.8 ON APR 25	0.198B ON MAR 18	555 000	1956
1957	---	93.7 ON JUL 14	0.368B ON MAR 19	638 000	1957
1958	---	24.1 ON JUL 21	0.198 ON OCT 7	105 000	1958
1959	---	51.8B ON APR 13	0.283B ON FEB 24	286 000	1959
1960	---	74.0 ON APR 15	0.074B ON JAN 21	232 000	1960
1961	---	15.9B ON APR 3	0.014 ON SEP 7	70 300	1961
1962	---	77.0 ON MAY 25	0.051B ON MAR 21	510 000	1962
1963	---	46.2 ON JUN 27	0.020B ON JAN 16	300 000	1963
1964	40.8 AT 07:00 CST ON JUN 21	40.2 ON JUN 21	0 B ON MAR 9	351 000	1964
1965	90.6 AT 12:00 CST ON MAY 7	90.0 ON MAY 7	0.017B ON MAR 1	653 000	1965
1966	131 AT 01:00 CST ON MAY 5	130 ON MAY 5	1.07 B ON DEC 31	758 000	1966
1967	124 AT 01:00 CST ON APR 22	121 ON APR 22	0.003 ON SEP 30	481 000	1967
1968	66.5 AT 11:00 CST ON JUL 14	65.7 ON JUL 14	0.017B ON FEB 25	618 000	1968
1969	75.6R AT 02:30 CST ON MAY 1	75.6 ON APR 30	0.722B ON APR 1	388 000	1969
1970	110 AT 18:00 CST ON MAY 16	110 ON MAY 16	0.430B ON MAR 27	687 000	1970
1971	54.7 AT 21:09 CST ON APR 18	54.4 ON APR 18	0.317B ON FEB 9	257 000	1971
1972	---	47.6 ON MAY 3	0.156B ON DEC 11	197 000	1972
1973	---	20.4 ON OCT 8	0.229B ON FEB 13	133 000	1973
1974	146 AT 09:30 CST ON MAY 22 *	145 ON MAY 22	0.456B ON MAR 19	652 000	1974
1975	75.3 AT 00:00 CST ON MAY 8	75.3 ON MAY 8	0.385 ON SEP 27	432 000	1975
1976	---	42.2B ON APR 7	0 ON SEP 21	112 000	1976
1977	---	11.8B ON APR 12	0.048B ON JAN 13	62 200	1977
1978	64.3 AT 10:29 CST ON APR 29	64.0 ON APR 28	0.266B ON MAR 6	300 000	1978
1979	104 AT 14:19 CST ON MAY 13	103 ON MAY 13	0.096 ON OCT 10	434 000	1979
1980	45.0 AT 22:01 CST ON APR 14	40.8 ON APR 15	0 ON JUL 13	69 900	1980
1981	18.8 AT 07:21 CST ON JUL 6	18.6 ON JUL 5	0.089B ON JAN 17	132 000	1981
1982	50.0 AT 00:15 CST ON MAY 5	50.0 ON MAY 4	0.257B ON FEB 17	354 000	1982
				317 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05OF009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	2.66	0.572	0.241	0.132	0.087	0.150	0.176	---	---	0.496	1965
1966	---	---	1.74	3.08	1.54	0.129	1.32	0.033	0.010	0.011	---	---	0.983	1966
1967	---	---	0.078	4.51	1.04	0.059	0.340	0.002	0	0	---	---	0.744	1967
1968	---	---	0.527	0.362	0.454	0.094	0.319	2.34	0.767	0.201	---	---	0.636	1968
1969	---	---	0	6.09	1.11	1.43	2.53	0.142	0.029	0.054	---	---	1.41	1969
1970	---	---	0	5.97	5.57	0.342	0.056	0.004	0.002	0.012	---	---	1.49	1970
1971	---	---	0	4.23	0.508	0.990	0.422	0.064	0.074	0.619	---	---	0.852	1971
1972	---	---	0.981	2.73	0.685	0.110	0.026	0.019	0.012	0.016	---	---	0.568	1972
1973	---	---	0.576	0.180	0.137	0.464	0.157	0.075	0.014	0.039	---	---	0.205	1973
1974	---	---	0.001	7.81	3.72	0.441	0.029	0.007	0.005	0.008	---	---	1.49	1974
1975	---	---	0.006	1.57	0.633	0.891	0.332	0.014	0.010	0.024	---	---	0.430	1975
1976	---	---	0.075	5.07	0.225	0.081	0.004	0.004	0	0	---	---	0.670	1976
1977	---	---	0.016	0.112	0.753	0.052	0.002	0	0.232	0.128	---	---	0.162	1977
1978	---	---	0.017	3.49	0.877	0.413	0.728	0.069	0.082	0.051	---	---	0.709	1978
1979	---	---	0.020	6.77	4.01	0.605	0.116	0.028	0.012	0.025	---	---	1.44	1979
1980	---	---	0	1.37	0.111	0.009	0.002	0	0.001	0.015	---	---	0.185	1980
1981	---	0.138	0.119	0.081	0.075	0.419	0.110	0.050	0.003	0.020	---	---	0.109	1981
1982	---	---	0.175	1.04	0.169	0.065	0.014	0.001	0	0.014	---	---	0.182	1982
MEAN	---	0.138	0.241	3.17	1.23	0.380	0.369	0.163	0.078	0.079	---	---	0.709	MEAN

LOCATION - LAT 49 30 10 N   DRAINAGE AREA, 212 km²
LONG 98 19 40 W   NATURAL FLOW

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05OF009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	11.0 ON APR 15	0 B ON MAR 1 *	10 500	1965
1966	---	14.3 B ON APR 1	0 B ON MAR 1	20 800	1966
1967	---	20.5 ON APR 20	0 B ON MAR 1	15 800	1967
1968	---	18.4 ON AUG 25	0 B ON MAR 1	13 500	1968
1969	---	29.4 ON APR 12	0 B ON MAR 1	29 900	1969
1970	---	40.5 ON APR 29 *	0 B ON MAR 1	31 500	1970
1971	---	27.1 ON APR 10	0 B ON MAR 1	18 100	1971
1972	---	6.06B ON APR 14	0 B ON MAR 1	12 000	1972
1973	---	1.03 ON JUN 16	0 B ON MAR 1	4 340	1973
1974	40.2 AT 12:05 CST ON APR 21 *	37.7 ON APR 21	0.001B ON MAR 5	31 400	1974
1975	24.6 AT 13:41 CST ON JUN 28	8.35 ON JUN 28	0.001B ON MAR 24	9 110	1975
1976	21.7 AT 04:17 CST ON APR 6	16.8 ON APR 6	0 ON JUL 28	14 200	1976
1977	8.41 AT 05:25 CST ON MAY 20	6.40 ON MAY 19	0 B ON MAR 1	3 440	1977
1978	---	10.1 B ON APR 10	0 B ON MAR 1	15 000	1978
1979	37.7 AT 04:58 CST ON APR 21	34.0 ON APR 21	0.005 ON SEP 17	30 400	1979
1980	---	5.61B ON APR 6	0 B ON MAR 1	3 920	1980
1981	---	4.84E ON JUN 24	0.001 ON SEP 15	2 310	1981
1982	5.83B AT 20:31 CST ON APR 12	4.25B ON APR 12	0 B ON MAR 1	3 860	1982
MEAN				15 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	1 470	1 830	1 780	770	---	---	1912
1913	---	---	---	---	---	1 300	1 440	1 560	1 330	939	566	340	---	1913
1914	---	---	---	---	912	925	1 190	1 150	---	---	---	---	---	1914
1915	127	142	166	285	536	715	1 510	2 100	2 140	1 350	583	227	827	1915
1916	311	215	153	220	952	1 400	1 910	2 320	2 110	1 740	1 010	579	1 080	1916
1917	453	294	243	300	1 030	1 890	2 220	1 910	1 240	778	508	309	936	1917
1918	266	215	226	503	987	869	1 190	1 320	---	---	---	---	---	1918
1950	---	---	---	---	---	---	---	---	---	518	---	---	---	1950
1951	---	---	---	---	1 050	1 320	1 460	1 520	1 340	1 210	---	---	---	1951
1952	---	---	---	---	1 550	1 580	1 580	1 510	1 100	728	---	---	---	1952
1953	---	---	---	---	717	1 150	1 800	1 800	1 410	847	---	---	---	1953
1954	---	---	---	---	638	1 440	1 910	1 880	1 750	1 990	1 420	---	---	1954
1955	---	---	---	---	1 570	1 820	1 740	1 420	916	615	---	---	---	1955
1956	---	---	---	---	1 430	1 790	1 570	1 210	900	644	---	---	---	1956
1957	---	---	---	---	1 010	1 310	1 080	718	608	546	---	---	---	1957
1958	---	---	---	---	1 160	1 060	1 120	1 020	729	593	---	---	---	1958
1959	---	---	---	---	809	849	1 240	1 090	786	637	---	---	---	1959
1960	---	---	---	---	1 010	1 150	1 150	1 010	619	---	---	---	---	1960
1961	---	---	---	---	705	824	973	762	672	---	---	---	---	1961
1962	---	---	---	---	---	1 100	1 050	---	---	---	---	---	---	1962
1964	---	---	---	---	---	---	---	---	0	0	0	0	---	1964
1965	0	0	131	634	1 410	1 750	2 110	1 600	997	818	569	459	879	1965
1966	606	580	558	456	1 360	773	1 440	895	799	379	501	612	749	1966
1967	699	702	612	473	456	532	521	561	601	608	624	578	580	1967
1968	691	685	215	393	482	300	212	208	239	338	529	792	423	1968
1969	945	858	807	527	423	365	477	698	409	574	692	826	633	1969
1970	1 030	1 010	858	369	425	481	548	583	537	302	558	856	628	1970
1971	876	857	964	629	522	492	429	528	591	439	612	793	643	1971
1972	853	908	770	659	529	512	628	1 040	660	701	611	872	729	1972
1973	804	803	682	385	87.8	562	939	705	237	441	550	686	573	1973
1974	1 300	995	1 100	890	616	2 870	1 550	806	957	528	583	966	1 070	1974
1975	1 150	1 140	1 110	411	336	360	765	683	757	485	354	986	710	1975
1976	892	766	899	453	358	139	136	110	116	129	317	1 040	446	1976
1977	962	801	471	250	565	259	263	159	363	488	730	735	503	1977
1978	708	578	438	409	203	158	180	255	380	602	743	838	457	1978
1979	1 180	1 130	639	301	279	883	461	246	173	222	250	712	530	1979
1980	888	911	827	199	227	248	728	589	544	753	727	720	614	1980
1981	528	323	117	127	257	634	785	996	726	461	408	868	521	1981
1982	1 180	686	719	564	288	211	217	265	498	386	438	453	491	1982
MEAN	734	664	578	429	732	943	1 070	1 020	830	693	586	663	668	MEAN

LOCATION - LAT 53 09 50 N LONG 99 20 56 W

DRAINAGE AREA, 363 000 km²
REGULATED SINCE 1964

DATA CONTRIBUTED BY -
MANITOBA HYDRO

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	1 610 ON AUG 26	---	---	1913
1914	---	1 550 ON AUG 5	---	---	1914
1915	---	2 360 ON SEP 12	127 B ON JAN 1	26 100 000	1915
1916	---	2 480 ON AUG 20	153 B ON MAR 1	34 200 000	1916
1917	---	2 310 ON JUL 18	221 B ON MAR 2	29 500 000	1917
1918	---	1 380 ON AUG 7	208 B ON MAR 7	---	1918
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	1 790 ON JUL 29	---	---	1952
1953	---	1 980 ON AUG 31	---	---	1953
1954	---	---	---	---	1954
1955	---	---	---	---	1955
1956	---	---	---	---	1956
1957	---	---	---	---	1957
1958	---	---	---	---	1958
1959	---	---	---	---	1959
1960	---	---	---	---	1960
1961	---	---	---	---	1961
1962	---	---	---	---	1962
1964	---	---	---	---	1964
1965	---	2 110 ON JUL 1	0 ON JAN 1 *	27 700 000	1965
1966	---	1 440 ON JUL 1	379 ON OCT 1	23 600 000	1966
1967	---	864 ON NOV 29	238 ON DEC 24	18 300 000	1967
1968	---	1 050 ON DEC 31	1.56 ON AUG 4	13 400 000	1968
1969	---	1 110 ON JAN 10	10.2 ON JUN 15	20 000 000	1969
1970	---	1 230 ON FEB 3	118 ON APR 26	19 800 000	1970
1971	---	1 200 ON MAR 11	133 ON MAY 23	20 300 000	1971
1972	---	1 190 ON AUG 12	181 ON MAY 21	23 100 000	1972
1973	---	1 330 ON JUN 26	49.8 ON MAY 19	18 100 000	1973
1974	---	3 280 ON JUN 19 *	196 ON DEC 26	33 800 000	1974
1975	---	1 320 ON FEB 14	91.2 ON NOV 15	22 400 000	1975
1976	---	1 410 ON DEC 21	80.7 ON JUL 4	14 100 000	1976
1977	---	1 400 ON JAN 10	53.8 ON OCT 2	15 900 000	1977
1978	---	1 230 ON DEC 8	96.6 ON APR 30	14 400 000	1978
1979	---	1 420 ON JUN 18	76.7 ON SEP 16	16 700 000	1979
1980	---	1 020 ON NOV 15	67.9 ON MAY 31	19 400 000	1980
1981	---	1 410 ON AUG 8	98.4 ON MAY 3	16 400 000	1981
1982	---	1 300 ON JAN 3	56.4 ON OCT 24	15 500 000	1982
				21 100 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	156	156	184	968	1 510	1 430	1 710	1 650	1 270	708	396	227	867	1913
1914	170	142	127	708	1 260	1 280	1 650	1 140	714	585	476	246	712	1914
1915	127	146	158	696	710	1 270	2 240	2 680	1 850	966	594	198	975	1915
1916	152	121	146	953	1 250	1 740	2 650	2 520	1 970	1 420	845	288	1 170	1916
1917	182	176	175	507	1 930	2 280	2 400	1 600	900	596	540	204	963	1917
1918	124	146	179	1 030	846	927	1 410	1 180	832	589	356	150	650	1918
1919	135	147	126	460	647	842	873	761	664	569	162	88.7	458	1919
1920	82.6	79.4	82.6	130	1 730	1 960	1 740	1 500	771	434	254	166	747	1920
1921	83.0	78.7	98.2	262	1 750	1 690	1 620	1 140	833	560	342	234	729	1921
1922	177	139	132	430	1 260	1 430	1 390	1 080	985	601	394	176	687	1922
1923	123	117	112	345	888	1 330	2 280	1 830	1 240	646	262	156	782	1923
1924	97.4	92.0	113	174	949	977	1 240	942	839	478	214	178	526	1924
1925	136	115	124	696	1 230	1 310	1 560	1 110	1 200	870	462	258	759	1925
1926	177	154	200	551	999	698	981	725	975	1 280	844	225	654	1926
1927	215	165	164	493	1 790	1 820	2 150	1 980	1 510	1 350	758	403	1 070	1927
1928	303	273	261	763	1 460	1 300	2 180	1 860	880	417	213	111	839	1928
1929	72.8	70.8	89.9	303	802	1 220	1 140	529	419	242	117	63.9	424	1929
1930	54.7	53.8	70.2	634	737	964	1 180	813	529	328	243	132	480	1930
1931	112	102	118	480	440	503	1 050	815	644	544	320	---	---	1931
1932	---	---	---	---	1 140	1 500	1 770	1 050	803	507	353	181	---	1932
1933	170	160	150	510	1 420	1 520	1 510	913	686	421	322	243	672	1933
1934	172	202	234	676	1 550	1 420	1 610	1 000	657	469	426	295	730	1934
1935	191	143	213	537	1 050	1 080	1 380	1 250	630	331	155	133	596	1935
1936	102	90.7	91.3	436	1 600	1 260	876	529	487	260	165	87.4	500	1936
1937	60.1	57.1	63.8	506	637	624	933	711	388	304	---	---	---	1937
1938	---	---	---	---	650	1 020	1 360	896	638	425	---	---	---	1938
1939	---	---	---	---	688	705	1 420	818	462	302	---	---	---	1939
1940	---	---	---	---	1 250	948	689	603	415	426	189	115	---	1940
1941	102	75.9	75.6	620	388	360	540	470	413	274	267	83.9	307	1941
1942	56.4	61.5	68.1	425	539	1 150	1 630	1 510	942	610	318	179	627	1942
1943	158	134	147	1 030	1 370	1 010	1 420	1 090	631	346	270	122	647	1943
1944	110	104	103	601	495	880	1 470	1 090	779	437	214	137	537	1944
1945	98.8	118	133	512	823	1 210	1 400	876	582	527	298	192	567	1945
1946	173	169	192	1 000	717	975	1 360	834	569	429	245	120	568	1946
1947	163	154	173	818	1 460	1 330	1 320	852	678	642	469	283	698	1947
1948	264	203	180	333	2 250	2 850	2 230	1 450	927	437	197	103	955	1948
1949	88.7	76.2	102	711	502	790	703	713	430	289	322	120	405	1949
1950	95.1	121	120	444	954	843	1 390	1 060	606	370	214	150	534	1950
1951	175	155	158	759	1 510	1 590	1 750	1 610	1 290	1 110	717	395	940	1951
1952	212	229	240	1 190	1 840	1 360	1 840	1 490	915	531	381	153	868	1952
1953	136	128	159	513	1 220	1 630	2 060	1 490	1 020	517	320	145	783	1953
1954	134	133	187	302	1 270	1 880	2 070	1 700	1 980	1 680	1 150	814	1 110	1954
1955	369	346	273	1 160	1 820	1 880	1 620	1 200	604	426	164	145	836	1955
1956	150	176	185	620	1 960	1 760	1 430	1 070	686	471	307	154	749	1956
1957	131	97.0	124	575	1 490	1 370	912	581	515	377	383	206	565	1957
1958	153	158	196	1 060	1 210	1 200	1 190	904	494	359	224	123	608	1958
1959	153	141	159	957	655	949	1 430	915	491	475	306	262	577	1959
1960	207	178	174	1 040	975	1 020	1 060	786	392	271	187	146	537	1960
1961	135	129	137	526	634	1 120	798	610	368	229	155	88.8	412	1961
1962	125	153	179	395	1 130	851	897	752	421	124	104	110	439	1962
1963	79.4	78.2	87.1	652	817	776	1 110	943	590	412	281	141	500	1963
1964	163	218	212	518	798	905	1 450	699	477	538	389	158	545	1964
1965	208	207	225	656	1 390	1 570	2 300	1 840	983	864	575	319	933	1965
1966	341	225	354	858	1 160	1 230	1 500	1 140	548	338	214	139	673	1966
1967	230	395	404	304	1 010	1 100	1 040	688	440	334	214	153	527	1967
1968	425	213	274	580	513	458	544	547	488	355	360	258	418	1968
1969	413	473	429	932	1 100	688	1 260	954	584	532	327	281	666	1969
1970	424	522	390	441	1 170	775	1 150	900	501	408	410	333	621	1970
1971	483	577	534	806	1 190	888	890	817	436	370	436	337	648	1971
1972	459	403	486	673	1 550	1 080	1 330	1 050	563	536	352	253	730	1972
1973	472	526	511	648	1 000	1 160	979	582	556	469	306	369	632	1973
1974	454	537	600	966	2 330	1 860	1 390	946	837	712	546	430	970	1974
1975	487	627	606	621	1 240	1 160	1 050	595	450	456	443	335	672	1975
1976	413	541	577	786	513	388	493	498	493	473	284	292	479	1976
1977	468	520	345	534	477	594	402	365	438	355	250	268	417	1977
1978	309	338	341	499	1 060	812	799	543	577	679	388	332	558	1978
1979	451	513	564	543	1 570	1 120	538	388	344	313	295	245	574	1979
1980	284	497	500	711	587	690	798	438	372	487	398	222	498	1980
1981	401	464	418	751	558	872	742	1 080	691	512	424	246	597	1981
1982	378	481	433	588	886	618	689	543	384	412	327	268	501	1982
MEAN	214	223	230	635	1 120	1 170	1 340	1 030	724	530	356	215	663	MEAN

LOCATION - LAT 53 50 30 N DRAINAGE AREA, 347 000 km²
LONG 101 11 10 W REGULATED

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	1 810 ON JUL 29	156 E ON JAN 1	27 300 000	1913
1914	---	1 690 ON JUL 15	127 E ON MAR 1	22 500 000	1914
1915	---	2 830 ON AUG 9	127 B ON JAN 1	30 800 000	1915
1916	---	2 920 ON JUL 19	115 B ON FEB 16	37 100 000	1916
1917	---	2 570 ON JUL 2	132 B ON DEC 31	30 400 000	1917
1918	---	1 520 ON JUL 10	117 B ON JAN 24	20 500 000	1918
1919	---	1 000 ON APR 23	86.4B ON DEC 30	14 400 000	1919
1920	---	2 310 ON JUN 3	79.0B ON FEB 13	23 600 000	1920
1921	---	1 840 ON MAY 6	68.0B ON FEB 3	23 000 000	1921
1922	---	1 500 ON JUN 30	125 B ON FEB 28	21 600 000	1922
1923	---	2 370 ON JUL 16	109 B ON MAR 29	24 700 000	1923
1924	---	1 440 ON MAY 9	81.8B ON JAN 22	16 600 000	1924
1925	---	1 660 ON JUL 15	105 B ON JAN 31	23 900 000	1925
1926	---	1 460 ON APR 27	151 B ON FEB 7	20 600 000	1926
1927	---	2 190 ON JUL 12	149 B ON FEB 26	33 800 000	1927
1928	---	2 320 ON JUL 18	80.7B ON DEC 31	26 500 000	1928
1929	---	1 570 ON JUN 27	58.3B ON DEC 31	13 400 000	1929
1930	---	1 240 ON JUL 11	50.7B ON FEB 3 *	15 200 000	1930
1931	---	1 210 ON APR 21	---	---	1931
1932	---	---	---	---	1932
1933	---	1 740 ON MAY 3	136 B ON MAR 23	21 200 000	1933
1934	---	1 930B ON APR 30	167 B ON JAN 12	23 000 000	1934
1935	---	1 580 ON APR 28	112 B ON JAN 29	18 800 000	1935
1936	---	2 220 ON MAY 2	66.0B ON DEC 31	15 800 000	1936
1937	---	1 400B ON APR 29	---	---	1937
1938	---	---	---	---	1938
1939	---	1 620 ON APR 25	---	---	1939
1940	---	---	---	---	1940
1941	---	1 350 ON APR 20	62.0B ON DEC 21	9 670 000	1941
1942	---	1 770 ON JUL 28	54.7B ON JAN 11	19 800 000	1942
1943	---	2 250 ON APR 23	94.9B ON DEC 15	20 400 000	1943
1944	---	1 570 ON JUL 6	98.0B ON MAR 20	17 000 000	1944
1945	---	1 480 ON JUL 12	83.5B ON JAN 11	17 900 000	1945
1946	---	1 460 ON JUL 9	104 B ON DEC 18	17 900 000	1946
1947	---	1 740 ON MAY 5	137 B ON MAR 7	22 000 000	1947
1948	---	3 000 ON JUN 11 *	93.4B ON DEC 29	30 200 000	1948
1949	---	1 220 ON APR 20	70.2B ON JAN 29	12 800 000	1949
1950	---	1 770B ON MAY 6	86.4B ON JAN 15	16 800 000	1950
1951	---	1 850 ON JUL 30	144 B ON FEB 28	29 700 000	1951
1952	---	2 100B ON APR 21	133 B ON DEC 2	27 500 000	1952
1953	---	2 310 ON JUL 4	120 B ON JAN 31	24 700 000	1953
1954	---	2 200 ON JUL 2	118 B ON FEB 12	35 100 000	1954
1955	---	1 940 ON JUN 9	94.0B ON NOV 20	26 300 000	1955
1956	---	2 320 ON MAY 17	127 B ON DEC 22	23 700 000	1956
1957	---	1 640B ON MAY 1	92.9B ON FEB 8	17 800 000	1957
1958	---	1 570 ON APR 28	108 B ON DEC 11	19 200 000	1958
1959	---	1 670B ON APR 22	134 B ON FEB 2	18 200 000	1959
1960	---	1 970B ON APR 29	142 B ON DEC 26	17 000 000	1960
1961	---	1 370 ON JUN 22	81.8B ON DEC 8	13 000 000	1961
1962	---	1 590B ON APR 30	62.9 ON NOV 6	13 800 000	1962
1963	1 410 AT 13:00 CST ON JUL 21	1 400 ON JUL 19	74.8B ON JAN 27	15 800 000	1963
1964	---	1 670 ON JUL 3	124 B ON JAN 3	17 200 000	1964
1965	2 430 AT 08:15 CST ON JUL 23 *	2 370 ON JUL 23	196 B ON JAN 22	29 400 000	1965
1966	1 830 AT 23:15 CST ON JUL 20	1 780 ON JUL 20	109 B ON DEC 30	21 200 000	1966
1967	---	1 630B ON MAY 13	102 B ON DEC 15	16 600 000	1967
1968	---	900B ON APR 29	130 B ON NOV 28	13 200 000	1968
1969	1 640 AT 17:30 CST ON JUL 23	1 630 ON JUL 23	210 B ON JAN 1	21 000 000	1969
1970	---	1 730B ON MAY 9	228 B ON NOV 25	19 600 000	1970
1971	---	1 580B ON APR 26	300 ON OCT 10	20 400 000	1971
1972	---	2 010 ON MAY 2	196 B ON DEC 3	23 100 000	1972
1973	---	1 340 ON JUN 20	205 B ON NOV 16	19 900 000	1973
1974	---	2 410 ON MAY 2	391 B ON DEC 19	30 600 000	1974
1975	---	1 330B ON MAY 5	251 B ON NOV 27	21 200 000	1975
1976	---	991B ON APR 16	220 B ON NOV 28	15 100 000	1976
1977	---	923B ON APR 22	164 B ON NOV 24	13 100 000	1977
1978	---	1 540 ON MAY 2	211 B ON JAN 5	17 600 000	1978
1979	2 080 AT 18:00 CST ON MAY 8	2 000 ON MAY 8	198 B ON DEC 13	18 100 000	1979
1980	1 210 AT 00:01 CST ON APR 22	1 140 ON APR 26	161 B ON DEC 4	15 700 000	1980
1981	1 230 AT 23:45 CST ON AUG 12	1 230 ON AUG 12	190 B ON DEC 21	18 800 000	1981
1982	1 510B AT 10:17 CST ON APR 29	1 470B ON APR 29	204 B ON NOV 24	15 800 000	1982
				20 900 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.002	0.019	0.004	0.001	---	---	---	---	---	---	0.006	1977
1978	---	---	0.026	0.228	0.008	0.004	---	---	---	---	---	---	0.066	1978
1979	---	---	0	2.03	0.308	0.021	---	---	---	---	---	---	0.583	1979
1980	---	---	0	0.103	0.001	0	---	---	---	---	---	---	0.026	1980
1981	---	0.017	0.037	0.002	0.001	0.002	---	---	---	---	---	---	0.011	1981
1982	---	---	0	0.730	0	0	---	---	---	---	---	---	0.180	1982
MEAN	---	0.017	0.011	0.519	0.054	0.005	---	---	---	---	---	---	0.145	MEAN

LOCATION - LAT 50 16 16 N   DRAINAGE AREA, 162 km^2
LONG 101 23 04 W   NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.063 AND 0 m^3/s OCCURRED IN FEBRUARY

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	0.139 AT 18:20 CST ON APR 8	0.076 ON APR 8	0B ON MAR 1 *	67.8	1977
1978	---	0.578B ON APR 3	0B ON MAR 1	692	1978
1979	13.9 AT 18:00 CST ON APR 24 *	12.7 A ON APR 23 *	0B ON MAR 1	6 140	1979
1980	---	0.379B ON APR 8	0B ON MAR 1	271	1980
1981	0.153 AT 17:32 CST ON APR 30	0.063B ON MAR 19	0 ON APR 7	114	1981
1982	5.95 AT 00:06 CST ON APR 14	5.10 ON APR 14	0B ON MAR 1	1 890	1982
				1 530	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCLATER RIVER NEAR CAMPERVILLE - STATION NO. 05LG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.005	6.97	1.58	1.13	0.505	0.297	0.265	2.07	---	---	1.59	1969
1970	---	---	0.037	7.92	8.12	1.69	3.41	2.02	0.071	1.48	---	---	3.09	1970
1971	---	---	0.025	10.5	1.25	2.17	1.48	0.268	0.008	0.540	---	---	2.01	1971
1972	---	---	0.019	9.22	4.44	0.283	0.132	0.031	0.001	0.002	---	---	1.75	1972
1973	---	---	0.019	0.319	0.445	8.96	0.819	0.123	1.05	0.922	---	---	1.56	1973
1974	---	---	0.018	14.4	13.6	2.96	0.033	0.004	0.155	0.195	---	---	3.89	1974
1975	---	---	0	4.09	4.72	2.91	0.128	0.001	0.653	1.15	---	---	1.70	1975
1976	---	---	0	10.7	1.70	13.2	0.642	0.022	0.001	0	---	---	3.23	1976
1977	---	---	0	0.352	0.369	0.029	0.133	0.231	1.81	1.01	---	---	0.488	1977
MEAN	---	---	0.014	7.16	4.02	3.70	0.809	0.333	0.446	0.819	---	---	2.15	MEAN

LOCATION - LAT 51 59 50 N   DRAINAGE AREA, 394 km^2
LONG 100 13 50 W   NATURAL FLOW

SCLATER RIVER NEAR CAMPERVILLE - STATION NO. 05LG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	35.7 ON APR 14	0 ON SEP 5 *	33 700	1969
1970	---	22.3 ON APR 26	0.028 ON SEP 14	65 500	1970
1971	---	34.8 ON APR 13	0 ON SEP 3	42 500	1971
1972	---	37.7 ON APR 21	0 B ON MAR 1	37 000	1972
1973	46.4 AT 08:00 CST ON JUN 22	44.2 ON JUN 22	0 B ON MAR 1	33 000	1973
1974	98.0 AT 04:30 CST ON APR 21 *	85.0 ON APR 21 *	0.001 ON AUG 7	82 300	1974
1975	16.6 AT 11:14 CST ON APR 28	14.6 ON APR 28	0 B ON MAR 1	36 000	1975
1976	75.0 AT 21:00 CST ON JUN 15	65.7 ON JUN 16	0 B ON MAR 1	68 400	1976
1977	6.71 AT 11:17 CST ON SEP 28	6.40 ON SEP 28	0 B ON MAR 1	10 300	1977
				45 400	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCOTT CREEK NEAR LAURIER - STATION NO. 05LJ026

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.013	0.668	1.07	0.202	0.115	0.059	0.050	0.557	---	---	0.488	1959
1960	---	---	0	1.46	1.73	0.330	0.127	0.138	0.075	0.111	---	---	0.881	1960
1961	---	---	0.058	0.255	0.409	0.105	0.064	0.001	0.062	0.116	---	---	0.207	1961
1962	---	---	0.001	0.293	0.487	0.168	0.044	0.050	0.041	0.048	---	---	0.237	1962
1963	---	---	0.028	1.49	0.694	0.918	0.124	0.071	0.169	0.106	0.105	---	0.775	1963
1964	---	---	0	0.694	0.598	0.105	0.079	0.055	0.064	0.068	---	---	0.348	1964
1965	---	---	0.012	1.03	1.29	0.576	0.212	0.113	0.978	0.236	---	---	0.725	1965
1966	---	---	0.283	0.932	1.38	0.349	0.144	0.239	0.099	0.146	---	---	0.738	1966
1967	---	---	0.029	0.312	1.99	0.270	0.108	0.085	0.051	0.144	---	---	0.655	1967
1968	---	---	0.025	0.405	0.541	0.274	0.347	0.326	0.248	0.191	---	---	0.311	1968
1969	---	---	0.057	1.08	0.486	1.31	0.796	0.121	0.194	0.211	---	---	0.727	1969
1970	---	---	0.184	1.31	3.15	0.687	0.326	0.114	0.179	0.208	---	---	1.34	1970
1971	---	---	0	0.857	0.471	2.16	0.408	0.160	0.143	0.468	---	---	0.862	1971
1972	---	---	0.058	1.09	1.14	0.257	0.117	0.091	0.085	0.087	---	---	0.636	1972
1973	---	---	0.049	0.212	0.321	0.612	0.110	0.167	0.348	0.371	---	---	0.297	1973
1974	---	---	0	1.45	2.17	0.687	0.212	0.127	0.144	0.136	---	---	1.08	1974
1975	---	---	0	0.743	1.24	1.00	0.201	0.878	2.74	0.909	---	---	0.744	1975
1976	---	---	0.011	2.90	0.542	0.477	0.178	0.091	0.079	0.079	---	---	0.972	1976
1977	---	---	0.010	0.276	0.435	0.256	---	---	---	---	---	---	0.244	1977
1978	---	---	0.026	1.04	0.499	0.290	---	---	---	---	---	---	0.460	1978
MEAN	---	---	0.042	0.925	1.03	0.552	0.206	0.160	0.319	0.233	0.105	---	0.636	MEAN

LOCATION - LAT 50 50 50 N   DRAINAGE AREA, 69.4 km^2
LONG 99 32 45 W   NATURAL FLOW

REMARKS - 58.9 m^3/s OCCURRED SEP 19 1975. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SCOTT CREEK NEAR LAURIER - STATION NO. 05LJ026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	7.36 AT 00:30 CST ON MAY 3	4.25 ON MAY 8	0 B ON MAR 1 *	5 150	1959
1960	7.48 AT 17:00 CST ON MAY 26	4.64 ON APR 20	0 B ON MAR 1	9 290	1960
1961	---	1.48 ON MAY 7	0.006B ON MAR 27	2 190	1961
1962	---	4.47A ON MAY 30	0 B ON MAR 1	2 500	1962
1963	10.4 B AT 05:15 CST ON APR 16	5.52 ON JUN 10	0 B ON MAR 1	8 180	1963
1964	10.4 B AT 22:35 CST ON APR 24	3.11B ON APR 24	0 B ON MAR 1	3 670	1964
1965	---	12.0 B ON APR 29	0.006B ON MAR 1	7 640	1965
1966	10.5 AT 21:00 CST ON MAY 4	4.70 ON MAY 5	0.014B ON MAR 1	7 790	1966
1967	5.07 AT 00:30 CST ON MAY 15	3.57 ON MAY 15	0.028B ON MAR 1	6 910	1967
1968	---	1.27 ON MAY 9	0 B ON MAR 1	3 280	1968
1969	22.2 AT 03:52 CST ON JUN 27	11.0 ON JUN 27	0.057B ON MAR 1	7 660	1969
1970	---	11.3 ON MAY 7	0.184B ON MAR 1	14 100	1970
1971	26.3 AT 14:18 CST ON JUN 6 *	21.5 ON JUN 6 *	0 B ON MAR 1	9 080	1971
1972	8.67B AT 00:00 CST ON APR 26	5.58B ON APR 25	0 B ON MAR 1	6 700	1972
1973	6.26 AT 16:05 CST ON JUN 20	3.96 ON JUN 20	0.028B ON MAR 1	3 130	1973
1974	12.0 AT 23:55 CST ON MAY 11	6.57 ON APR 27	0 B ON MAR 1	11 300	1974
1975	11.6 AT 06:47 CST ON MAY 8	7.99 ON JUN 10	0 B ON MAR 1	7 850	1975
1976	11.3 AT 17:20 CST ON APR 19	7.14 ON APR 9	0 B ON MAR 1	10 300	1976
1977	---	1.42 ON MAY 20	0 B ON MAR 1	2 560	1977
1978	---	3.34B ON APR 24	0.020B ON MAR 1	4 850	1978
				6 710	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 06GD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	142	113	79.3	85.0	425	793	708	510	340	232	176	142	313	1955
1956	113	102	96.3	142	481	793	552	331	218	147	113	85.0	265	1956
1957	65.1	62.3	59.5	142	467	793	807	728	595	425	275	184	385	1957
1958	142	127	113	108	204	498	473	425	419	368	289	204	282	1958
1959	150	123	96.3	99.1	580	920	793	487	411	326	255	198	371	1959
1960	170	113	85.0	198	934	1 610	1 270	714	382	297	241	190	518	1960
1961	156	122	87.8	113	416	481	614	487	382	303	238	184	300	1961
1962	142	122	102	130	651	1 300	779	402	283	227	170	142	372	1962
1963	113	99.1	87.8	93.4	269	711	748	569	379	246	176	130	303	1963
1964	110	99.1	93.4	85.0	99.1	453	750	736	609	425	241	181	324	1964
1965	150	113	79.3	76.5	227	462	416	348	263	203	177	153	223	1965
1966	137	120	98.5	91.1	125	1 120	921	557	331	246	182	139	339	1966
1967	125	108	93.3	103	154	1 200	1 080	773	384	266	198	153	388	1967
1968	122	106	93.7	90.6	153	957	816	674	532	464	348	261	385	1968
1969	193	152	122	122	198	419	378	392	847	754	443	345	364	1969
1970	246	187	144	142	368	580	418	284	257	276	283	219	284	1970
1971	180	149	120	113	283	490	713	726	802	798	577	391	447	1971
1972	236	173	124	114	721	667	789	776	750	584	364	268	465	1972
1973	200	162	127	109	563	423	332	233	210	181	148	118	234	1973
1974	94.8	76.1	66.7	64.4	365 R	414R	351	479	520	373	261	200	273R	1974
1975	154	102	78.2	90.9	459	574	712	585	420	306	225	171	325	1975
1976	139	120	108	112	391	620	568	337	339	454	394	308	325	1976
1977	235	177	127	220	808	791	724	756	580	432	320	227	452	1977
1978	158	116	88.5	79.6	310	805	728	759	992	804	524	325	476	1978
1979	207	150	112	96.5	277	772	526	355	267	221	181	148	277	1979
1980	122	96.6	75.3	109	---	---	438	535	1 090	828	526	318	---	1980
1981	195	139	111	104	553	664	536	385	329	282	207	153	306	1981
1982	115	96.3	81.9	75.1	410	633	615	364	335	386	221	177	294	1982
MEAN	154	122	98.2	111	403 R	739R	663	525	474	388	277	204	344	MEAN

LOCATION - LAT 58 53 30 N   DRAINAGE AREA, 48 200 km^2
LONG 96 16 31 W   NATURAL FLOW

R - REVISED SINCE JAN 1980

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 06GD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---	793E ON JUN 1	79.3E ON MAR 1	9 890 000	1955
1956	---	793E ON JUN 1	85.0E ON DEC 1	8 380 000	1956
1957	---	807E ON JUL 1	59.5E ON MAR 1 *	12 200 000	1957
1958	---	498E ON JUN 1	108 E ON APR 1	8 890 000	1958
1959	---	920E ON JUN 1	96.3E ON MAR 1	11 700 000	1959
1960	---	1 610E ON JUN 1 *	85.0E ON MAR 1	16 400 000	1960
1961	---	614E ON JUL 1	87.8E ON MAR 1	9 450 000	1961
1962	---	1 300E ON JUN 1	102 E ON MAR 1	11 700 000	1962
1963	---	748E ON JUL 1	87.8E ON MAR 1	9 550 000	1963
1964	---	750E ON JUL 1	85.0E ON APR 1	10 300 000	1964
1965	---	462E ON JUN 1	76.5E ON APR 1	7 030 000	1965
1966	---	1 310B ON JUN 10	87.8B ON MAR 31	10 700 000	1966
1967	---	1 350E ON JUN 7	86.7B ON MAR 21	12 200 000	1967
1968	---	957E ON JUN 1	90.6E ON APR 1	12 200 000	1968
1969	---	934 ON SEP 21	122 E ON MAR 1	11 500 000	1969
1970	---	600E ON JUN 1	142 E ON APR 1	8 950 000	1970
1971	898 AT 22:51 CST ON SEP 30	892 ON SEP 30	109 B ON MAR 31	14 100 000	1971
1972	---	1 040 ON MAY 27	109 B ON APR 11	14 700 000	1972
1973	1 000 AT 23:00 CST ON MAY 23 *	917 ON MAY 24	103 B ON APR 11	7 400 000	1973
1974	---	736RB ON MAY 25	63.4B ON APR 7	8 610 000R	1974
1975	779 AT 16:00 CST ON JUL 8	765 ON JUL 8	74.5B ON MAR 29	10 300 000	1975
1976	714 AT 18:00 CST ON JUN 20	711 ON JUN 20	106 B ON MAR 21	10 300 000	1976
1977	---	917B ON MAY 13	115 B ON MAR 29	14 300 000	1977
1978	---	1 040 ON SEP 7	79.3B ON APR 7	15 000 000	1978
1979	---	960B ON JUN 2	94.9B ON APR 10	8 720 000	1979
1980	---	1 160 ON SEP 10	64.3B ON APR 9	---	1980
1981	---	1 010B ON MAY 25	104 B ON APR 1	9 650 000	1981
1982	---	759 ON JUN 26	74.1B ON APR 27	9 270 000	1982
				10 900 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	5.61	2.64	1.74	0.013	0.048	1.84	1.13	0.283	---	1915
1916	---	---	---	9.69	5.19	2.19	1.57	0.842	0.278	0.869	---	---	2.93	1916
1917	---	---	---	4.16	3.10	0.808	0.416	0.058	0.041	0.142	---	---	1.24	1917
1918	---	---	---	1.05	0.729	2.53	0.582	0.471	0.206	0.648	0.485	---	0.883	1918
1919	---	---	---	3.55	1.98	0.778	12.3	0.448	2.31	---	---	---	---	1919
1920	---	---	---	---	4.57	6.07	0.121	0	---	---	---	---	---	1920
1921	---	---	---	4.13	3.93	2.18	---	---	---	---	---	---	---	1921
1922	---	---	---	4.70	8.96	0.412	---	---	---	---	---	---	---	1922
1923	---	---	---	---	3.41	1.34	0.881	0.979	---	---	---	---	---	1923
1924	---	---	---	---	5.94	1.74	0.715	1.17	0.202	1.58	---	---	---	1924
1925	---	---	---	10.2	4.16	19.2	3.06	0.407	0.909	5.34	---	---	6.13	1925
1926	---	---	---	3.12	1.47	5.49	2.70	0.530	0.549	5.41	---	---	2.75	1926
1927	---	---	---	14.8	20.7	3.03	0.976	0.307	0.564	---	---	---	---	1927
MEAN	---	---	---	6.16	5.37	3.72	2.28	0.475	0.567	2.26	0.808	0.283	2.79	MEAN

LOCATION - LAT 49 40 00 N DRAINAGE AREA, 712 km^2
LONG 96 39 00 W NATURAL FLOW

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	0 ON AUG 4 *	---	1915
1916	---	22.4 ON APR 22	0 ON AUG 26	54 200	1916
1917	---	13.5 ON APR 19	0 ON JUL 31	23 000	1917
1918	---	5.44 ON JUN 6	0.113 ON AUG 7	16 300	1918
1919	---	56.1 ON JUL 5 *	0 ON SEP 2	---	1919
1920	---	---	0 ON JUL 12	---	1920
1921	---	7.90 ON APR 16	0.311 ON JUN 29	---	1921
1922	---	---	0 ON JUN 13	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	44.5 ON JUN 10	0.113 ON AUG 5	113 000	1925
1926	---	17.5 ON JUN 25	0.396 ON AUG 15	50 800	1926
1927	---	56.1 ON MAY 11	---	---	1927
				51 500	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1926	---	---	---	---	---	---	---	---	---	5.41	---	---	---	1926
1927	---	---	---	---	20.7	3.03	0.976	0.307	0.564	1.59	---	---	4.55	1927
1928	---	---	---	---	1.83	7.18	7.05	1.26	0.869	0.878	---	---	3.17	1928
1929	---	---	---	---	1.38	2.79	0.535	0.112	0.206	0.574	---	---	0.928	1929
1930	---	---	---	---	6.56	0.994	0.744	0.196	0.224	0.583	---	---	1.56	1930
1931	---	---	---	3.79	2.66	0.672	0.206	0.095	0.231	0.419	0.597	---	0.717	1931
1932	---	---	---	---	1.92	0.309	0.331	0.079	0.155	0.634	---	---	0.576	1932
1933	---	---	---	---	2.83	1.90	0.172	0.067	0.143	0.213	---	---	0.886	1933
1934	---	---	---	---	0.820	0.554	0.251	0.070	0.139	0.357	---	---	0.365	1934
1935	---	---	---	---	1.73	1.14	0.609	0.204	0.227	0.314	---	---	0.703	1935
1936	---	---	---	---	1.38	0.372	0.064	0.015	0.150	---	---	---	---	1936
MEAN	---	---	---	3.79	4.18	1.89	1.09	0.241	0.291	1.10	0.597	---	1.50	MEAN

LOCATION - LAT 49 40 35 N DRAINAGE AREA, 717 km²
LONG 96 41 00 W NATURAL FLOW

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1926	---	---	---	---	1926
1927	---	56.1 ON MAY 11 *	0.215 ON AUG 15	72 400	1927
1928	---	16.7 ON JUN 23	0.736 ON AUG 20	50 [illegible]90	1928
1929	---	7.25 ON MAY 31	0.028 ON AUG 10	14 700	1929
1930	---	17.3 ON MAY 15	0.068 ON AUG 18	24 800	1930
1931	---	5.38 ON MAY 13	0.054 ON AUG 19	11 400	1931
1932	---	2.97 ON MAY 4	0.014 ON AUG 28	9 150	1932
1933	---	10.8 ON MAY 29	0.006 ON SEP 6	14 100	1933
1934	---	1.17 ON MAY 1	0.003 ON AUG 4 *	5 820	1934
1935	---	2.94 ON MAY 14	0.076 ON AUG 15	11 200	1935
1936	---	2.18 ON MAY 2	0.003 ON AUG 2	---	1936
				23 800	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05OE011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	1.37	50.4	6.97	0.044	0.028	0.008	0.011	0.042	---	---	7.25	1967
1968	---	---	0.219	2.90	4.12	1.52	1.01	2.33	1.31	0.219	---	---	4.70	1968
1969	---	---	0	21.4	5.13	0.881	0.557	0.190	0.036	0.090	---	---	3.49	1969
1970	---	---	0	23.6	18.6	7.00	0.371	0.036	0.230	0.090	---	---	6.20	1970
1971	---	---	0	14.6	2.67	0.492	0.160	0.046	0.116	0.733	---	---	2.32	1971
1972	---	---	1.69	13.2	1.88	0.077	0.031	0.079	0.037	0.185	---	---	2.12	1972
1980	---	---	0.004	6.12	0.085	0.046	0.029	0.014	0.264	0.427	---	---	0.858	1980
1981	---	---	0.572	0.321	0.251	0.393	0.561	0.408	0.274	0.464	---	---	0.406	1981
1982	---	---	0.693	10.0	0.441	3.69	3.01	0.553	0.185	0.623	---	---	2.38	1982
MEAN	---	---	0.505	15.8	4.46	1.57	0.640	0.407	0.274	0.319	---	---	3.97	MEAN

LOCATION - LAT 49 41 40 N
LONG 96 59 19 W REGULATED

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05OE011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	132 ON APR 21 *	0 B ON MAR 1 *	154 000	1967
1968	---	16.1 ON MAY 15	0 B ON MAR 1	36 000	1968
1969	---	76.5 ON APR 10	0 B ON MAR 1	73 700	1969
1970	---	72.8 ON APR 16	0 B ON MAR 1	131 000	1970
1971	---	55.2 B ON APR 9	0 B ON MAR 1	49 000	1971
1972	---	32.0 B ON APR 17	0 B ON MAR 1	44 800	1972
1980	43.5 B AT 12:00 CST ON APR 7 *	42.8 B ON APR 7	0 B ON MAR 1	18 200	1980
1981	7.53 AT 16:31 CST ON JUN 29	5.61 ON JUN 30	0.008 ON JUL 26	8 590	1981
1982	33.8 AT 22:31 CST ON APR 13	29.8 B ON APR 13	0 B ON MAR 1	50 300	1982
				62 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER DIVERSION NEAR ST. ADOLPHE - STATION NO. 05OH013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	3.99	0.943	0.397	0.984	0.189	0.252	1.27	2.13	---	---	1.26	1973
1974	---	---	---	56.3	48.5	4.17	---	---	---	---	---	---	---	1974
1975	---	---	0	3.34	1.51	2.02	4.28	0.027	0.024	0.068	---	---	1.00	1975
1976	---	---	0.001	8.09	0.932	3.76	0.248	0.022	0.035	0.001	---	---	1.60	1976
1977	---	---	0.105	1.08	0.189	0.099	0.179	0.039	0.672	0.244	---	---	0.323	1977
1978	---	---	0.228	28.2	1.71	0.057	0.358	0.004	0.007	0.087	---	---	3.75	1978
1979	---	---	0	23.8 R	1.82	2.93	0.032	0.020	0.047	0.054	---	---	3.53 R	1979
MEAN	---	---	0.721	17.4 R	7.87	1.99	0.881	0.061	0.343	0.417	---	---	1.98	MEAN

LOCATION - LAT 49 41 50 N
LONG 97 05 30 W REGULATED

R - REVISED SINCE JAN 1980

SEINE RIVER DIVERSION NEAR ST. ADOLPHE - STATION NO. 05OH013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	18.3 B ON MAR 14	0B ON MAR 1 *	26 700	1973
1974	---	176 E ON APR 22 *	0B ON APR 1	---	1974
1975	40.2 AT 06:45 CST ON JUL 1	37.7 ON JUL 1	0B ON MAR 1	29 800	1975
1976	---	37.1 ON JUN 13	0B ON MAR 1	33 900	1976
1977	5.78 AT 09:30 CST ON APR 10	4.19 ON APR 10	0B ON MAR 1	6 820	1977
1978	92.3 B AT 23:30 CST ON APR 10 *	84.4 B ON APR 18	0B ON MAR 1	79 400	1978
1979	---	133 R ON APR 19	0B ON MAR 1	78 700R	1979
MEAN				41 900R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SEINE RIVER DIVERSION NEAR STE. ANNE - STATION NO. 05OH008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	1.27	0.864	0.458	0.496	0.072	0.099	0.216	1.15	---	---	0.579	1973
1974	---	---	0	20.6	16.4	3.06	0.003	0.003	0.003	0.003	---	---	4.97	1974
1975	---	---	0	1.03	2.23	1.45	2.23	0	0	0	---	---	0.867	1975
1976	---	---	0	2.99	0.696	0.505	0.115	0	0	0	---	---	0.530	1976
1977	---	---	0.005	0.097	0.001	0	0	0	0	0	---	---	0.013	1977
1978	---	---	0.004	8.89	1.61	0.069	0.017	0.001	0.002	0	---	---	1.30	1978
1979	---	---	0	7.86 R	7.29	2.50	0	0	0	0	---	---	2.19 R	1979
1980	---	---	0	1.81	0	0	0	0	0	0	---	---	0.221	1980
1981	---	---	0.004	0.002	0	0	0	0	0	0	---	---	0.001	1981
1982	---	---	0.095	4.80	0.116	2.25	1.71	0.166	0	0.168	---	---	1.15	1982
MEAN	---	---	0.138	4.89 R	2.88	1.03	0.415	0.027	0.022	0.132	---	---	1.18	MEAN

LOCATION - LAT 49 39 10 N
LONG 96 39 10 W REGULATED

R - REVISED SINCE JAN 1980

SEINE RIVER DIVERSION NEAR STE. ANNE - STATION NO. 05OH008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	3.68 ON OCT 15	0B ON MAR 1 *	12 200	1973
1974	---	61.7 A ON APR 22 *	0B ON MAR 1	105 000	1974
1975	17.8 AT 03:05 CST ON JUL 2	17.3 ON JUL 2	0B ON MAR 1	18 300	1975
1976	4.67 AT 12:52 CST ON APR 23	4.56 ON APR 22	0B ON MAR 1	11 200	1976
1977	0.425 AT 21:00 CST ON APR 12	0.252 ON APR 12	0B ON MAR 1	267	1977
1978	---	22.1 B ON APR 10	0B ON MAR 1	27 600	1978
1979	---	40.0 R ON APR 19	0B ON MAR 1	46 400 R	1979
1980	9.99 B AT 16:00 CST ON APR 7	8.64 B ON APR 7	0B ON MAR 1	4 600	1980
1981	0.030 AT 06:38 CST ON MAR 26	0.025 ON MAR 26	0 ON MAR 1	16.9	1981
1982	19.2 AT 23:38 CST ON APR 16 *	16.7 B ON APR 16	0B ON MAR 1	24 300	1982
MEAN				25 000 R	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO. 05OH006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	6.73	1.02	0.229	0.205	0.807	0.383	---	---	---	1942
1943	---	---	---	9.12	3.38	7.18	2.25	0.281	0.255	0.235	---	---	---	1943
1944	---	---	---	2.12	0.910	13.0	2.27	10.7	20.4	1.97	6.69	---	---	1944
1945	---	---	---	15.5	5.98	1.43	2.32	0.400	4.77	2.27	---	---	---	1945
1946	---	---	11.3	7.65	2.01	0.621	0.782	0.101	0.484	1.49	---	---	---	1946
1947	---	---	0	11.6	5.60	4.96	1.60	3.63	0.950	2.58	---	---	---	1947
1948	---	---	0.132	14.0	7.09	0.827	1.71	3.97	0.417	0.238	0.491	0.272	---	1948
1949	0.112	0.064	0.129	8.33	3.95	1.18	0.258	0.290	0.125	1.31	1.89	0.405	1.50	1949
1950	0.253	0.197	0.139	14.2	33.8	4.82	4.29	0.585	3.01	5.08	1.63	0.477	5.75	1950
1951	0.306	0.119	0.427	10.2	6.49	1.19	0.229	0.212	0.425	0.588	0.356	0.206	1.77	1951
1952	0.057	0.060	0.092	1.82	0.628	0.554	0.560	0.138	0.063	0.205	0.187	0.186	0.375	1952
1953	0.066	0.051	0.377	1.94	1.32	3.88	1.26	0.171	0.537	0.322	0.380	0.185	0.872	1953
1954	0.049	0.096	0.119	3.42	5.61	11.6	1.62	0.301	0.754	1.39	0.948	0.498	2.19	1954
1955	0.212	0.119	0.109	20.8	3.99	4.32	0.671	0.089	0.057	0.278	0.161	0.107	2.55	1955
1956	0.033	0.019	0.100	8.86	4.32	1.46	1.74	0.967	3.95	0.774	4.67	0.488	2.27	1956
1957	0.195	0.063	4.11	10.7	4.68	5.02	2.65	0.201	0.190	0.375	0.393	0.131	2.39	1957
1958	0.076	0.041	0.257	0.809	0.682	0.663	2.15	0.157	0.058	0.362	0.440	0.166	0.492	1958
1959	0.103	0.024	0.062	11.6	7.46	19.6	1.35	2.61	4.00	16.0	2.30	0.425	5.47	1959
1960	0.217	0.194	0.085	26.0	4.14	2.03	0.380	0.169	0.119	0.224	0.535	0.220	2.83	1960
1961	0.233	0.032	0.906	3.52	2.42	0.472	0.135	0.012	0.009	0.274	0.217	0.066	0.693	1961
1962	0.055	0.020	0.106	2.64	3.35	0.947	0.976	0.880	0.481	0.359	0.845	0.452	0.929	1962
1963	0.083	0	0.990	4.31	4.00	5.45	2.09	0.758	0.085	0.145	0.146	0.063	1.51	1963
1964	0.107	0.111	0.053	3.44	3.52	2.65	0.751	0.198	0.318	1.79	0.621	0.190	1.14	1964
1965	0.098	0.047	0.098	4.62	3.56	3.58	2.54	0.254	0.736	1.59	0.947	0.537	1.55	1965
1966	0.395	0.264	0.211	10.2	3.45	4.43	5.45	0.439	1.26	0.832	1.09	0.292	2.36	1966
1967	0.129	0.068	0.070	12.6	2.95	0.833	0.340	0.112	0.012	0.255	0.399	0.109	1.48	1967
1968	0.053	0.046	0.100	1.80	1.03	1.07	1.39	2.51	1.64	1.13	0.909	0.239	0.995	1968
1969	0.133	0.207	0.238	8.06	0.929	0.806	1.22	0.551	0.235	0.501	0.410	0.243	1.12	1969
1970	0.166	0.069	0.093	7.76	3.13	2.39	0.689	0.157	0.286	0.400	0.988	0.164	1.35	1970
1971	0.028	0.066	0.252	8.44	0.815	0.769	0.373	0.227	0.120	0.596	0.721	0.354	1.06	1971
1972	0.106	0.054	0.333	4.58	1.11	0.507	0.112	0.210	0.214	0.497	0.528	0.072	0.688	1972
1973	0.052	0.046	1.34	1.20	1.08	1.48	1.04	0.751	1.04	3.07	1.34	0.348	1.07	1973
1974	0.100	0.127	0.193	16.2	9.89	1.90	0.359	0.208	0.178	0.259	0.159	0.105	2.47	1974
1975	0.110	0.142	0.177	1.37	1.50	2.87	1.50	0.125	0.112	0.210	0.173	0.107	0.699	1975
1976	0.088	0.076	0.104	2.59	0.542	2.02	0.396	0.030	0.009	0.063	0.069	0.088	0.498	1976
1977	0	0	0.056	1.33	0.441	0.667	0.483	0.111	1.55	1.18	0.743	0.527	0.590	1977
1978	0.212	0.160	0.181	11.7	2.97	0.716	0.379	0.078	0.104	0.154	0.138	0.056	1.39	1978
1979	0.027	0.019	0.025	10.3	1.98	2.44	0.163	0.115	0.228	0.134	0.180	0.093	1.29	1979
1980	0.068	0.078	0.089	2.76	0.592	0.126	0.038	0.048	0.174	0.574	0.268	0.073	0.408	1980
1981	0.018	0.114	0.537	0.787	0.650	0.616	0.332	0.227	0.293	1.76	0.767	0.467	0.550	1981
1982	0.090	0.035	0.126	2.22	2.30	1.82	1.20	0.972	0.123	1.62	1.04	0.535	1.01	1982
MEAN	0.119	0.083	0.641	7.53	3.93	3.02	1.23	0.833	1.23	1.30	0.938	0.252	1.57	MEAN

LOCATION - LAT 49 46 15 N DRAINAGE AREA, 1 090 km²
LONG 96 56 10 W REGULATED SINCE 1961

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO. 05OH006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	33.7 ON APR 9	---	---	1943
1944	---	49.6 ON SEP 7	0 B ON APR 1 *	---	1944
1945	---	50.4 ON MAR 28	---	---	1945
1946	---	39.1 ON MAR 25	0 B ON MAR 1	---	1946
1947	---	28.1 ON APR 17	---	---	1947
1948	---	39.1 ON APR 21	---	---	1948
1949	---	32.0 ON APR 12	0 B ON JAN 27	47 300	1949
1950	---	30.4 ON MAY 7	0.102B ON MAR 7	181 000	1950
1951	---	23.9 B ON APR 6	0 B ON DEC 30	54 600	1951
1952	---	4.08B ON APR 8	0.028B ON JAN 1	11 800	1952
1953	---	6.48 ON JUN 29	0.028B ON FEB 12	27 500	1953
1954	---	25.2 ON JUN 18	0.028B ON JAN 1	69 200	1954
1955	---	73.3 ON APR 8	0 ON SEP 16	80 500	1955
1956	---	36.5 B ON APR 22	0 B ON JAN 19	71 700	1956
1957	---	33.1 ON APR 26	0.026B ON JAN 31	75 400	1957
1958	---	9.34 ON JUL 6	0 ON SEP 22	15 500	1958
1959	82.7 R AT 08:00 CST ON JUN 15 *	77.6 ON JUN 15	0.006B ON FEB 19	173 000	1959
1960	---	88.1 ON APR 15 *	0.023 ON SEP 22	89 500	1960
1961	---	6.03B ON MAR 28	0 B ON FEB 1	21 800	1961
1962	---	17.7 B ON APR 22	0 B ON JAN 17	29 300	1962
1963	---	12.2 B ON APR 9	0 B ON JAN 11	47 600	1963
1964	---	13.6 B ON APR 19	0.011B ON MAR 24	36 200	1964
1965	---	26.0 B ON APR 14	0.020B ON MAR 14	49 000	1965
1966	---	23.4 A ON JUL 4	0.105B ON DEC 30	74 400	1966
1967	38.2 AT 03:30 CST ON APR 22	34.8 ON APR 22	0 B ON MAR 22	46 700	1967
1968	9.49 ON AUG 25	9.29 ON AUG 25	0.017B ON JAN 8	31 500	1968
1969	---	34.8 ON APR 12	0.017B ON FEB 11	35 400	1969
1970	---	27.8 B ON APR 18	0.034B ON FEB 15	42 600	1970
1971	---	28.6 B ON APR 10	0.014B ON FEB 9	33 300	1971
1972	---	18.3 B ON APR 16	0.008B ON JAN 26	21 800	1972
1973	---	7.36 ON OCT 14	0.045B ON FEB 1	33 800	1973
1974	64.0 B AT 09:00 CST ON APR 18	60.9 ON APR 19	0.057B ON DEC 11	77 800	1974
1975	14.6 AT 15:48 CST ON JUN 23	14.1 ON JUN 23	0.048 ON SEP 26	22 000	1975
1976	---	16.6 B ON APR 8	0 ON SEP 5	15 600	1976
1977	6.51 AT 06:45 CST ON SEP 27	6.48 ON SEP 27	0 B ON JAN 1	18 600	1977
1978	28.9 B AT 04:51 CST ON APR 11	28.6 B ON APR 11	0.022 ON SEP 11	43 800	1978
1979	58.3 B AT 01:40 CST ON APR 21	56.4 B ON APR 20	0.012B ON MAR 13	40 800	1979
1980	11.8 B AT 04:56 CST ON APR 9	11.4 B ON APR 9	0 ON JUL 16	12 800	1980
1981	2.50 AT 17:00 CST ON OCT 17	2.43 ON OCT 17	0 B ON JAN 17	17 300	1981
1982	10.2 B AT 06:50 CST ON APR 15	9.83B ON APR 15	0.008B ON FEB 11	31 900	1982
				49 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SEINE RIVER NEAR STE. ANNE - STATION NO. 05OH007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	5.87	4.58	2.13	0.399	0.068	0.155	1.51	---	---	1.83	1964
1965	---	---	0	8.20	4.92	2.43	2.09	0.180	0.753	2.22	---	---	2.58	1965
1966	---	---	0.015	10.9	12.4	4.23	9.89	0.349	1.60	0.548	---	---	4.98	1966
1967	---	---	1.56	29.6	6.87	0.634	0.255	0.129	0.020	0.118	---	---	4.84	1967
1968	---	---	0.867	2.09	2.87	1.91	1.18	0.928	1.31	0.982	---	---	1.50	1968
1969	---	---	0.270	7.74	2.89	1.65	1.05	0.527	0.243	0.650	---	---	1.86	1969
1970	---	---	0.110	7.57	13.2	5.79	0.621	0.099	0.102	0.320	---	---	3.46	1970
1971	---	---	0.165	4.28	2.49	0.952	0.418	0.215	0.107	0.624	---	---	1.15	1971
1972	---	---	0.316	6.07	2.74	0.474	0.092	0.237	0.287	0.430	---	---	1.31	1972
1973	---	---	1.57	1.54	1.36	1.60	0.853	0.427	0.973	3.61	---	---	1.49	1973
1974	---	---	0.184	19.5	16.2	3.69	0.020	0.063	0.143	0.249	---	---	4.97	1974
1975	---	---	0.142	1.26	3.33	2.83	2.75	0.169	0.084	1.31	---	---	1.09	1975
1976	---	---	0.217	3.45	1.09	1.03	0.418	0.007	0.007	0.035	---	---	0.773	1976
1977	---	---	0.224	0.616	0.451	0.541	0.217	0.070	0.709	0.929	---	---	0.468	1977
1978	---	---	0.155	9.76	3.30	0.601	0.266	0.059	0.054	0.082	---	---	1.76	1978
1979	---	---	0.095	5.72	4.64	2.09	0.151	0.138	0.180	0.152	---	---	1.63	1979
1980	---	---	0.070	2.32	0.468	0.131	0.076	0.039	0.182	0.279	---	---	0.441	1980
1981	---	---	0.248	0.578	0.559	0.633	0.250	0.134	0.331	1.25	---	---	0.497	1981
1982	---	---	0.187	5.21	2.28	3.12	2.51	1.08	0.195	1.66	---	---	2.08	1982
MEAN	---	---	0.336	6.96	4.56	1.92	1.23	0.255	0.389	0.892	---	---	2.05	MEAN

LOCATION - LAT 49 39 10 N DRAINAGE AREA, 704 km^2
LONG 96 37 00 W NATURAL FLOW

SEINE RIVER NEAR STE. ANNE - STATION NO. 05OH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	25.7 B ON APR 18	0 B ON MAR 1 *	38 700	1964
1965	---	27.0 ON APR 15	0 B ON MAR 1	54 800	1965
1966	---	99.7 ON JUL 4	0 B ON MAR 1	106 000	1966
1967	---	98.3 ON APR 22 *	0 B ON MAR 1	102 000	1967
1968	7.67 AT 12:00 CST ON MAY 20	7.53 ON MAY 19	0 B ON MAR 1	31 800	1968
1969	---	30.8 ON APR 12	0.102 ON SEP 4	39 500	1969
1970	23.5 AT 11:20 CST ON JUN 1	23.0 ON JUN 1	0.017 ON SEP 24	73 200	1970
1971	---	8.130 ON APR 9	0.031 ON SEP 26	25 300	1971
1972	---	19.7 B ON APR 16	0 ON AUG 4	27 000	1972
1973	---	8.52 ON OCT 15	0 ON AUG 31	31 600	1973
1974	60.0 AT 02:40 CST ON APR 22 *	58.9 ON APR 22	0.003M ON JUL 22	105 000	1974
1975	16.9 AT 03:25 CST ON JUL 2	16.5 ON JUL 2	0.012 ON SEP 17	31 400	1975
1976	---	5.890 ON APR 7	0 ON AUG 8	16 400	1976
1977	3.00B AT 09:40 CST ON MAR 31	2.35 ON SEP 28	0.0900 ON MAR 1	9 910	1977
1978	24.2 B AT 10:05 CST ON APR 12	21.2 B ON APR 12	0.015 ON SEP 11	37 300	1978
1979	28.4 B AT 09:23 CST ON APR 19	24.7 B ON APR 19	0.060B ON MAR 16	34 500	1979
1980	10.6 B AT 11:15 CST ON APR 7	9.100 ON APR 7	0 ON JUL 31	9 320	1980
1981	2.00 AT 02:45 CST ON OCT 15	1.93 ON OCT 15	0.019B ON MAR 5	18 500	1981
1982	22.6 AT 16:30 CST ON APR 16	19.6 B ON APR 16	0.044B ON MAR 1	42 300	1982
				43 500	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHANNON CREEK NEAR MORDEN - STATION NO. 05OF021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	6.00	4.72	0.406	0.168	0.023	0.027	0.022	---	---	1.53	1970
1971	---	---	0	5.96	0.629	0.320	0.071	0.012	0.017	0.130	---	---	0.853	1971
1972	---	---	1.15	1.93	0.551	0.000	0.002	0.006	0	0	---	---	0.463	1972
1973	---	---	0.272	0.014	0.005	0	0.003	0	0	0.001	---	---	0.037	1973
1974	---	---	0	9.26	6.14	0.790	0.063	0.001	0.001	0.004	---	---	2.02	1974
1975	---	---	0	0.939	0.306	0.387	0.074	0	0	0	---	---	0.220	1975
1976	---	---	0	3.74	0.214	0.064	0.002	0	0	0	---	---	0.493	1976
1977	---	---	0	0.002	0.166	0.076	0	0	0.320	0.022	---	---	0.073	1977
1978	---	---	0.004	2.10	0.521	0.382	0.066	0.010	0.006	0	---	---	0.391	1978
1979	---	---	0	6.65	2.05	0.929	0.223	0	0	0	---	---	1.32	1979
1980	---	---	0	0.325	0.001	0	0.013	0	0	0	---	---	0.042	1980
1981	---	0.186	0.069	0.009	0.010	0.009	0	0	0	0	---	---	0.012	1981
1982	---	---	0.186	0.471	0.003	0.000	0	0	0	0.047	---	---	0.095	1982
MEAN	---	0.186	0.129	2.94	1.23	0.276	0.053	0.004	0.035	0.010	---	---	0.501	MEAN

LOCATION - LAT 49 16 10 N DRAINAGE AREA, 308 km^2
LONG 97 58 40 W NATURAL FLOW

REMARKS - WATER LEVELS OBTAINED NEAR KRONSGART IN 1922, 24, 26-30. 1981 MAX AND MIN DAILY DISCHARGE OF 1.39 AND 0 OCCURRED IN FEB

SHANNON CREEK NEAR MORDEN - STATION NO. 05OF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	42.2 AT 11:35 CST ON APR 26	28.1 ON APR 26	0B ON MAR 1 *	32 300	1970
1971	65.1 B AT 08:53 CST ON APR 10 *	48.7 B ON APR 10	0B ON MAR 1	18 000	1971
1972	---	9.34 B ON MAR 18	0B ON MAR 1	9 810	1972
1973	---	1.02 B ON MAR 12	0B ON MAR 1	787	1973
1974	---	72.2 ON MAY 21 *	0B ON MAR 1	42 600	1974
1975	4.11 AT 19:54 CST ON APR 29	3.60 B ON APR 14	0B ON MAR 1	4 660	1975
1976	18.5 AT 20:19 CST ON APR 5	13.1 B ON APR 4	0B ON MAR 1	10 400	1976
1977	3.34 AT 08:26 CST ON SEP 26	3.00 ON SEP 26	0B ON MAR 1	1 540	1977
1978	---	9.00 B ON APR 8	0B ON MAR 1	8 270	1978
1979	---	56.4 B ON APR 30	0B ON MAR 1	27 800	1979
1980	---	1.20 B ON APR 6	0B ON MAR 1	880	1980
1981	---	0.139B ON MAR 18	0 ON APR 12	258	1981
1982	---	2.93 B ON MAR 31	0B ON MAR 1	2 010	1982
				12 300	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHANNON CREEK NEAR MORRIS - STATION NO. 05OF014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.094	11.2	0.713	0.129	0.063	0	0	0	---	---	1.50	1960
1961	---	---	1.47	0.889	0.020	0	0.002	0	0	0	---	---	0.297	1961
1962	---	---	0	6.76	2.08	0.955	0.002	0.032	0	0	---	---	1.22	1962
1963	---	---	0.292R	0.335	0.001	2.91	0.007	0.004	0.001	0	---	---	0.497R	1963
1964	---	---	0	2.37	0.128	0.153	0.039	0.093	0.231	0.032	---	---	0.374	1964
1965	---	---	0	10.8	1.24	0.253	0.054	0	0	0	---	---	1.52	1965
1966	---	---	4.57	3.94	0.319	0.036	4.01	0	0	0	---	---	1.61	1966
1967	---	---	0	14.1	1.67	0.125	0.027	0	0	0	---	---	1.96	1967
1968	---	---	1.36	0.478	0.404	0.074	0.199	3.70	1.64	0.357	---	---	1.03	1968
1969	---	---	0	10.0	0.832	0.524	1.56	0.090	0.035	0.047	---	---	1.66	1969
1970	---	---	0	15.4	9.70	1.24	0.498	0.115	0.031	0.009	---	---	3.35	1970
1971	---	---	0	12.2	0.413	0.341	0.090	0	0	0.097	---	---	1.61	1971
1972	---	---	2.09	4.67	0.529	0.119	0.409	0.215	0.008	0.034	---	---	1.01	1972
1973	---	---	0.608	0.075	0.008	0.006	0.010	0.039	0.003	0.010	---	---	0.096	1973
1974	---	---	0	21.3	11.3	0.865	0.143	0.001	0.018	0	---	---	4.17	1974
1975	---	---	0	1.68	0.670	0.405	0.353	0	0	0	---	---	0.385	1975
1976	---	---	0	8.56	0.231	0.094	0	0	0	0	---	---	1.09	1976
1977	---	---	0	0.154	0.066	0.010	0.025	0	0.225	0.240	---	---	0.090	1977
1978	---	---	0.009	5.84	0.509	0.103	0.022	0	0.027	0.009	---	---	0.800	1978
1979	---	---	0	---	---	---	0.244	0.019	0	0	---	---	---	1979
1980	---	---	0	0.977	0.086	0	0	0	0	0	---	---	0.120	1980
1981	---	---	0.341	0.056	0.165	0.025	0.007	0.085	0	0	---	---	0.086	1981
1982	---	---	0.226	2.70	0.005	0.028	0	0	0	0.001	---	---	0.363	1982
MEAN	---	---	0.481R	6.13	1.41	0.382	0.342	0.191	0.100	0.036	---	---	1.13	MEAN

LOCATION - LAT 49 21 17 N DRAINAGE AREA, 653 km^2
LONG 97 25 18 W NATURAL FLOW

R - REVISED SINCE JAN 1980

SHANNON CREEK NEAR MORRIS - STATION NO. 05OF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	45.3 ON APR 7	0B ON MAR 1 *	31 800	1960
1961	---	8.24B ON MAR 25	0B ON MAR 1	6 290	1961
1962	---	42.8 B ON APR 21	0 ON MAR 1	25 900	1962
1963	---	21.3 ON JUN 5	0B ON MAR 1	9 450R	1963
1964	---	11.8 B ON APR 11	0B ON MAR 1	7 930	1964
1965	---	47.6 B ON APR 13	0B ON MAR 1	32 100	1965
1966	---	47.3 B ON APR 1	0B ON MAR 1	34 000	1966
1967	---	91.7 B ON APR 21	0B ON MAR 1	41 500	1967
1968	---	24.4 ON AUG 27	0B ON MAR 1	21 800	1968
1969	---	54.1 B ON APR 12	0B ON MAR 1	35 100	1969
1970	---	45.9 ON APR 30	0B ON MAR 1	70 800	1970
1971	---	116 ON APR 11	0B ON MAR 1	34 000	1971
1972	---	15.2 B ON APR 15	0B ON MAR 1	21 400	1972
1973	---	2.090 ON MAR 21	0B ON MAR 1	2 030	1973
1974	---	126 ON APR 18 *	0B ON MAR 1	80 200	1974
1975	---	6.77 ON APR 29	0B ON MAR 1	8 150	1975
1976	---	58.9 B ON APR 5	0B ON MAR 1	23 100	1976
1977	2.13 AT 23:58 CST ON SEP 28	1.95 ON SEP 29	0B ON MAR 1	1 890	1977
1978	---	22.7 B ON APR 9	0B ON MAR 1	16 900	1978
1979	---	---	0B ON MAR 1	---	1979
1980	---	5.17B ON APR 7	0B ON MAR 1	2 550	1980
1981	3.67 AT 12:35 CST ON MAY 25 *	2.41 ON MAY 25	0B ON MAR 1	1 810	1981
1982	---	11.3 B ON APR 13	0B ON MAR 1	7 690	1982
MEAN				23 800R	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SHANNON CREEK TRIBUTARY NEAR MYRTLE - STATION NO. 05OF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.026	3.14	0.033	0.036	0.004	0	0	0	---	---	0.396	1960
1961	---	---	0.752	0.063	0	0	0	0	0	0	---	---	0.103	1961
1962	---	---	0	1.62	0.601	0.352	0	0	0	0	---	---	0.303	1962
1963	---	---	0.090	0.017	0	1.12	0	0	0	0	---	---	0.151	1963
1964	---	---	0	0.668	0.007	0	0	0	0.253	0	---	---	0.114	1964
1965	---	---	0	1.88	0.333	0.015	0	0	0	0	---	---	0.225	1965
1966	---	---	3.53	7.58	0.750	0	2.67	0	0	0	---	---	1.66	1966
1967	---	---	0.005	2.66	0.189	0	0	0	0	0	---	---	0.350	1967
1968	---	---	0.140	0.017	0.004	0	0	1.29	0.226	0.001	---	---	0.212	1968
1969	---	---	0	3.83	0.066	0.073	1.00	0.001	0	0	---	---	0.612	1969
1970	---	---	0	6.23	0.945	0.052	0	0	0	0	---	---	0.889	1970
1971	---	---	0	4.20	0.013	0.059	0.024	0	0	0	---	---	0.526	1971
1972	---	---	1.47	1.15	0.130	0	0	0	0	0	---	---	0.344	1972
1973	---	---	0.050	0.002	0	0	0	0	0	0	---	---	0.008	1973
1974	---	---	0	8.17	4.38	0.155	0	0	0	0	---	---	1.57	1974
1975	---	---	0	0.457	0.101	0.001	0.130	0	0	0	---	---	0.095	1975
1976	---	---	0	2.88	0.004	0.059	0	0	0	0	---	---	0.360	1976
1977	---	---	0	0.051	0	0	0	0	0.077	0.002	---	---	0.026	1977
1978	---	---	0.108	1.05	0.099	0.063	0	0	0	0	---	---	0.261	1978
1979	---	---	0	6.92	0.063	0.091	0.028	0	0	0	---	---	0.971	1979
1980	---	---	0	0.181	0	0	0	0	0	0	---	---	0.022	1980
1981	---	---	0.074	0.005	0.020	0.003	0	0	0	0	---	---	0.013	1981
1982	---	---	0.194	0.088	0.001	0	0	0	0	0	---	---	0.109	1982
MEAN	---	---	0.237	2.29	0.375	0.129	0.168	0.056	0.024	0.004	---	---	0.405	MEAN

LOCATION - LAT 49 20 39 N DRAINAGE AREA, 168 km^2
LONG 97 50 33 W NATURAL FLOW

SHANNON CREEK TRIBUTARY NEAR MYRTLE - STATION NO. 05OF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	16.3 ON APR 6	0B ON MAR 1 *	8 390	1960
1961	---	5.83 B ON MAR 24	0B ON MAR 1	2 170	1961
1962	---	14.7 B ON APR 20	0B ON MAR 1	6 410	1962
1963	---	17.2 ON JUN 5	0 ON MAR 1	3 200	1963
1964	---	3.62 B ON APR 9	0B ON MAR 1	2 410	1964
1965	---	7.45 B ON APR 11	0B ON MAR 1	4 770	1965
1966	---	78.2 B ON APR 1	0B ON MAR 1	35 000	1966
1967	---	19.3 B ON APR 21	0B ON MAR 1	7 400	1967
1968	---	13.1 ON AUG 25	0B ON MAR 1	4 480	1968
1969	---	43.6 B ON APR 10	0B ON MAR 1	13 000	1969
1970	---	43.6 ON APR 18	0B ON MAR 1	18 900	1970
1971	---	59.2 B ON APR 10	0B ON MAR 1	11 200	1971
1972	---	8.98 B ON MAR 19	0B ON MAR 1	7 370	1972
1973	---	0.190B ON MAR 22	0B ON MAR 1	160	1973
1974	---	81.0 ON APR 17 *	0B ON MAR 1	33 300	1974
1975	---	3.40 ON APR 15	0B ON MAR 1	2 010	1975
1976	---	34.5 B ON APR 4	0B ON MAR 1	7 620	1976
1977	1.16 AT 16:50 CST ON SEP 29	1.06 ON SEP 29	0B ON MAR 1	549	1977
1978	3.94 AT 05:20 CST ON JUN 8 *	3.82 ON JUN 8	0 ON JUL 2	5 530	1978
1979	---	64.6 B ON APR 20	0B ON MAR 1	20 500	1979
1980	1.21B AT 11:06 CST ON APR 8	1.14 B ON APR 8	0B ON MAR 1	470	1980
1981	---	0.200B ON MAR 15	0B ON MAR 1	270	1981
1982	3.06B AT 09:14 CST ON APR 13	2.48 B ON MAR 30	0B ON MAR 1	2 300	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 580	MEAN

SHELL RIVER AT ASESSIPPI - STATION NO. 05MD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	7.88	2.95	1.49	1.59	1.94	1.78	1.03	---	1914
1915	0.462	0.293	0.486	3.76	2.80	2.96	3.53	1.58	1.79	2.75	1.99	0.850	1.94	1915
1916	1.13	0.850	0.708	18.9	10.2	11.4	7.68	2.50	2.89	4.65	3.54	1.70	5.50	1916
1917	0.827	0.824	0.971	3.33	20.6	13.6	18.3	4.19	3.18	1.94	2.49	1.04	5.99	1917
1918	0.983	1.07	1.99	7.83	4.98	6.47	10.6	5.80	3.69	3.18	2.13	1.61	4.22	1918
1919	1.46	1.20	0.864	8.80	10.4	4.70	10.9	3.75	4.61	3.89	2.08	1.15	4.31	1919
1920	1.12	1.01	1.22	9.70	39.7	14.4	5.05	2.46	2.01	---	---	---	---	1920
1921	---	---	---	8.02	13.3	23.1	16.6	11.9	6.92	6.96	---	---	---	1921
MEAN	0.997	0.875	1.04	8.62	14.6	10.6	9.45	4.21	3.34	3.62	2.34	1.23	4.43	MEAN

LOCATION - LAT 50 56 50 N DRAINAGE AREA, 2 000 km^2
LONG 101 19 00 W NATURAL FLOW

SHELL RIVER AT ASESSIPPI - STATION NO. 05MD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	9.68 ON APR 18	0.283B ON FEB 5 *	61 300	1915
1916	---	36.5 B ON APR 19	0.708B ON MAR 1	174 000	1916
1917	---	33.7 ON JUL 13	0.538B ON DEC 13	189 000	1917
1918	---	21.8 ON JUL 4	0.736B ON JAN 11	133 000	1918
1919	---	16.4 ON JUL 9	0.765B ON MAR 4	142 000	1919
1920	---	72.2 ON MAY 14 *	---	---	1920
1921	---	41.9 ON JUN 25	---	---	1921
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		140 000	MEAN

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1920	---	---	---	---	---	---	---	---	---	1.36	1.50	1.13	---	1920
1921	0.664	0.726	0.828	5.95	11.7	19.0	13.7	10.6	6.31	6.31	6.47	3.41	7.17	1921
1922	1.82	1.33	1.68	21.6	45.0	12.4	5.65	3.12	3.02	2.32	3.09	1.95	8.63	1922
1923	1.73	1.22	1.23	9.01	25.3	14.8	8.18	4.17	2.17	2.46	2.28	1.29	6.18	1923
1924	0.608	0.152	0.222	1.66	8.09	6.71	3.69	7.64	3.44	4.23	2.52	1.39	3.38	1924
1925	1.17	1.23	1.88	18.2	8.08	11.6	8.46	3.15	2.30	2.72	2.56	1.29	5.22	1925
1926	1.05	1.04	1.56	14.3	7.07	5.33	2.25	1.98	2.89	5.11	3.58	1.57	3.97	1926
1927	1.01	0.981	1.06	8.33	22.1	11.0	8.69	4.79	4.38	3.90	---	---	---	1927
1928	---	---	---	---	9.24	8.30	6.95	4.00	2.14	2.11	---	---	---	1928
1929	---	---	---	---	5.43	3.93	2.21	1.19	1.04	1.31	---	---	---	1929
1930	---	---	---	---	3.79	3.79	2.30	1.43	1.33	1.26	---	---	---	1930
1931	---	---	---	---	2.00	1.57	1.36	0.859	1.20	1.11	---	---	---	1931
1932	---	---	---	---	2.58	1.72	3.28	1.26	1.29	1.68	---	---	---	1932
MEAN	1.15	0.954	1.21	11.3	12.5	8.35	5.56	3.68	2.63	2.76	3.14	1.72	5.76	MEAN

LOCATION - LAT 51 10 10 N DRAINAGE AREA, 1 680 km^2
LONG 101 19 40 W NATURAL FLOW

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1920	---	---	---	---	1920
1921	---	35.7 ON JUN 25	0.651B ON JAN 1	226 000	1921
1922	---	63.4 ON MAY 7 *	1.27 B ON FEB 16	272 000	1922
1923	---	47.9 ON MAY 6	0.963B ON DEC 31	195 000	1923
1924	---	18.2 ON JUN 21	0.113B ON FEB 20 *	107 000	1924
1925	---	32.3 ON APR 17	1.13 B ON JAN 1	165 000	1925
1926	---	23.2 ON APR 22	0.963B ON JAN 23	125 000	1926
1927	---	37.1 ON MAY 4	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
				182 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	29.6	6.18	11.5	8.38	2.81	2.07	---	---	---	1948
1949	---	---	---	5.19	2.97	4.70	2.44	2.34	1.25	1.15	1.28	---	---	1949
1950	---	---	---	---	9.85	6.62	5.71	3.44	1.29	2.22	---	---	---	1950
1951	---	---	---	9.21	17.7	4.36	3.73	2.79	5.02	5.66	---	---	---	1951
1952	---	---	---	10.3	5.64	3.66	1.92	1.14	1.81	2.01	---	---	---	1952
1953	---	---	---	6.52	9.02	10.5	19.5	5.28	5.53	4.52	5.35	---	---	1953
1954	---	---	---	6.82	15.0	30.2	14.0	3.23	5.23	6.73	4.27	---	---	1954
1955	---	---	---	16.8	17.5	7.55	4.32	1.43	1.05	1.46	---	---	---	1955
1956	---	---	1.08	4.78	14.4	6.52	7.13	2.75	2.47	1.95	1.76	1.33	---	1956
1957	1.35	1.07	0.930	9.16	15.1	3.92	2.08	1.40	1.17	1.31	1.36	0.886	3.32	1957
1958	0.419	0.369	0.748	4.02	2.21	1.58	1.01	0.567	1.18	1.58	1.79	0.686	1.35	1958
1959	0.673	0.446	1.51	5.48	6.04	4.38	5.25	1.09	1.41	2.68	2.47	1.72	2.77	1959
1960	0.905	1.03	1.09	10.6	8.63	9.59	2.03	0.652	0.343	0.528	1.02	0.563	3.07	1960
1961	0.728	0.541	0.503	1.48	1.38	0.790	0.407	0.143	0.122	0.323	0.829	0.687	0.660	1961
1962	0.822	1.02	1.03	2.33	2.45	1.33	0.321	0.386	0.477	0.847	0.896	0.368	1.02	1962
1963	0.227	0.236	0.815	5.06	4.74	2.32	1.48	0.701	0.637	0.849	0.798	0.624	1.54	1963
1964	0.563	0.555	0.555	4.94	4.07	1.28	0.612	0.502	0.471	0.736	0.556	0.015	1.24	1964
1965	0.001	0	0	5.69	9.14	6.17	2.06	1.64	1.60	3.19	1.43	0.874	2.66	1965
1966	0.949	0.972	1.07	8.71	12.1	7.57	6.20	1.39	0.576	0.808	0.888	0.790	3.51	1966
1967	0.780	0.681	0.716	1.87	9.18	5.21	1.52	0.630	0.284	0.564	0.804	0.686	1.92	1967
1968	0.659	0.693	1.38	4.57	2.24	1.26	1.02	1.08	0.908	0.910	0.945	0.654	1.36	1968
1969	0.799	0.926	1.05	5.03	3.16	1.62	2.11	2.08	0.941	2.21	1.62	0.993	1.88	1969
1970	0.785	0.814	0.807	7.13	18.7	3.71	2.77	3.56	0.624	1.29	6.52	1.77	4.06	1970
1971	1.19	1.08	0.936	15.4	7.94	4.27	2.78	1.89	0.589	1.32	1.06	1.11	3.33	1971
1972	1.16	1.06	1.10	11.3	16.0	3.45	2.69	1.00	0.655	0.891	0.916	0.578	3.40	1972
1973	0.292	0.277	0.758	4.68	2.29	3.30	3.90	1.01	1.69	1.75	1.47	1.22	1.89	1973
1974	0.871	0.796	0.902	15.4	23.6	10.2	2.71	1.40	1.83	2.85	1.76	1.12	5.30	1974
1975	1.10	1.04	1.10	7.58	17.7	10.4	3.47	1.41	1.80	2.99	2.78	1.16	4.40	1975
1976	1.06	1.26	1.11	18.4	7.11	24.7	9.34	1.90	0.935	1.01	0.823	0.499	5.64	1976
1977	0.364	0.497	0.523	5.03	3.24	1.66	2.07	1.50	3.40	4.24	2.30	1.35	2.18	1977
1978	1.09	0.745	1.34	6.38	6.88	3.45	1.57	0.598	0.818	1.39	1.41	0.752	2.21	1978
1979	0.523	0.499	0.568	11.8	21.7	11.9	2.09	0.752	0.902	0.835	1.56	0.805	4.51	1979
1980	0.745	0.753	0.889	8.22	3.29	1.02	0.832	0.967	0.886	1.18	1.23	0.530	1.70	1980
1981	0.338	0.423	2.97	4.37	2.66	1.95	1.44	0.867	0.585	1.29	1.33	0.504	1.56	1981
1982	0.217	0.371	0.373	4.98	3.87	1.88	4.10	2.48	0.492	1.20	1.34	0.699	1.84	1982
MEAN	0.716	0.698	0.958	7.55	9.63	5.98	3.89	1.78	1.48	1.90	1.77	0.851	2.63	MEAN

LOCATION - LAT 50 57 40 N   DRAINAGE AREA, 2 000 km^2
LONG 101 19 05 W   NATURAL FLOW

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	43.9 ON MAY 1	---	---	1948
1949	---	8.67B ON APR 7	---	---	1949
1950	---	---	---	---	1950
1951	---	34.3 ON MAY 9	---	---	1951
1952	---	16.5 ON APR 23	---	---	1952
1953	---	43.6 ON JUL 6	---	---	1953
1954	---	42.2 ON JUN 24	---	---	1954
1955	---	25.3 ON MAY 14	---	---	1955
1956	---	20.2 ON MAY 12	---	---	1956
1957	---	28.1 ON MAY 8	0.680B ON DEC 30	105 000	1957
1958	---	7.65B ON APR 9	0.283B ON JAN 25	42 400	1958
1959	---	10.1 ON MAY 9	0.311B ON FEB 10	87 600	1959
1960	---	21.5 ON APR 15	0.198E ON SEP 30	97 000	1960
1961	---	2.75B ON APR 15	0.020 ON SEP 5	20 800	1961
1962	---	6.97 ON APR 24	0.227 ON JUL 27	32 200	1962
1963	---	8.72E ON MAY 17	0.147B ON JAN 11	48 700	1963
1964	---	11.6 B ON APR 12	0.003B ON DEC 27	39 000	1964
1965	---	14.0 ON MAY 6	0 B ON JAN 8 *	83 900	1965
1966	---	18.5 A ON MAY 14	0.436 ON SEP 25	111 000	1966
1967	---	11.2 A ON MAY 12	0.167 ON SEP 12	60 600	1967
1968	---	7.62B ON APR 12	0.552B ON DEC 17	42 900	1968
1969	---	15.1 A ON APR 19	0.612A ON SEP 16	59 300	1969
1970	29.4 AT 19:36 CST ON MAY 15	28.0 ON MAY 15	0.303 ON SEP 20	128 000	1970
1971	30.3 AT 19:45 CST ON APR 28	30.0 ON APR 28	0.479 ON SEP 22	105 000	1971
1972	27.9 AT 08:31 CST ON MAY 7	27.7 ON MAY 7	0.399B ON DEC 31	108 000	1972
1973	---	7.93B ON APR 11	0.249B ON JAN 20	59 500	1973
1974	46.4 AT 06:02 CST ON APR 24 *	43.3 ON APR 24	0.779B ON FEB 12	167 000	1974
1975	26.3 AT 05:04 CST ON MAY 7	26.0 ON MAY 6	0.850B ON DEC 15	139 000	1975
1976	---	68.8 E ON JUN 22 *	0.413B ON DEC 31	178 000	1976
1977	19.5 AT 15:36 CST ON APR 17	16.5 ON APR 17	0.323B ON JAN 23	68 800	1977
1978	12.6 AT 09:47 CST ON APR 23	12.4 ON APR 26	0.365 ON AUG 12	69 500	1978
1979	45.8 AT 23:07 CST ON MAY 23	44.8 ON MAY 24	0.259 ON OCT 5	142 000	1979
1980	13.0B AT 23:10 CST ON APR 12	11.8 ON APR 21	0.358 ON AUG 2	53 900	1980
1981	---	6.93E ON APR 2	0.310B ON DEC 31	49 300	1981
1982	13.7 AT 01:24 CST ON JUL 25	13.1 ON JUL 24	0.166B ON JAN 31	58 100	1982
				82 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.583	---	1962
1963	0.419	0.303	0.375	2.42	2.67	1.37	0.828	0.429	0.402	0.521	0.480	0.308	1.71	1963
1964	0.301	0.253	0.227	2.21	2.87	0.565	0.355	0.338	0.319	0.522	0.709	0.180	1.47	1964
1965	0.062	0.088	0.143	3.95	7.50	4.75	1.45	1.19	1.26	2.14	0.983	0.880	4.08	1965
1966	0.716	0.629	0.849	5.60	10.5	6.50	4.37	0.713	0.368	0.505	0.642	0.588	5.86	1966
1967	0.560	0.441	0.341	2.00	7.51	3.65	0.897	0.470	0.235	0.441	0.502	0.478	3.38	1967
1968	0.534	0.510	0.642	2.49	1.13	0.958	0.768	0.836	0.638	0.579	0.838	0.657	1.30	1968
1969	0.508	0.512	0.522	4.84	2.08	1.32	1.75	1.26	0.456	2.14	1.22	0.711	2.18	1969
1970	0.565	0.534	0.523	3.22	16.8	3.09	2.89	2.36	0.509	1.41	3.72	1.26	5.94	1970
1971	0.873	0.656	0.600	13.5	4.88	2.68	2.04	1.68	0.370	0.922	1.33	1.13	5.38	1971
1972	0.816	0.724	0.777	6.97	13.6	1.97	1.97	0.580	0.400	0.613	0.523	0.447	5.85	1972
1973	0.204	0.173	0.763	2.21	1.81	2.36	2.76	0.674	1.13	1.28	1.08	1.01	1.78	1973
1974	0.606	0.490	0.869	9.35	18.8	7.88	1.92	0.934	1.23	2.07	1.30	0.926	9.23	1974
1975	0.765	0.640	0.850	6.14	15.7	8.91	2.47	0.946	1.20	2.18	2.04	0.954	7.91	1975
1976	0.742	0.776	0.881	12.7	4.72	18.6	5.80	1.27	0.629	0.745	0.609	0.413	9.12	1976
1977	---	---	0.463	2.87	2.17	1.08	---	---	---	---	---	---	1.64	1977
1978	---	---	0.845	4.28	3.89	1.75	---	---	---	---	---	---	2.69	1978
1979	---	---	0.575	5.21	19.7	8.64	---	---	---	---	---	---	8.55	1979
1980	---	---	0.667	5.35	1.84	0.686	---	---	---	---	---	---	2.12	1980
1981	---	---	1.30	2.67	1.72	1.49	---	---	---	---	---	---	1.79	1981
1982	---	---	0.194	2.91	2.28	1.12	---	---	---	---	---	---	1.62	1982
MEAN	0.548	0.481	0.620	5.04	7.11	3.97	2.16	0.977	0.653	1.15	1.14	0.702	4.18	MEAN

LOCATION - LAT 51 21 39 N DRAINAGE AREA, 1 330 km^2
LONG 101 15 21 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	0 ON 5(: 0	900 000 ON 5(: 0	---	1962
1963	---	4.47 ON MAY 15	0.309B ON MAR 1	18 000	1963
1964	---	7.14 ON MAY 10	0.227B ON MAR 1	15 500	1964
1965	---	14.0 ON MAY 4	0.108B ON MAR 1 *	43 000	1965
1966	---	18.0 ON MAY 10	0.623B ON MAR 1	61 800	1966
1967	---	9.63 ON MAY 11	0.311B ON MAR 14	35 700	1967
1968	---	4.28 ON APR 16	0.513B ON MAR 21	13 700	1968
1969	---	13.7 ON APR 17	0.515B ON MAR 1	22 900	1969
1970	---	29.4 ON MAY 11	0.521B ON MAR 18	62 700	1970
1971	---	27.9 ON APR 23	0.589B ON MAR 1	56 800	1971
1972	---	29.7 ON MAY 2	0.702B ON MAR 11	61 700	1972
1973	---	3.51B ON APR 13	0.396B ON MAR 1	18 700	1973
1974	---	30.0 ON APR 30	0.869B ON MAR 1	97 200	1974
1975	---	25.9 ON MAY 3	0.850B ON MAR 1	83 400	1975
1976	---	45.9 ON JUN 18 *	0.861B ON MAR 1	96 100	1976
1977	---	5.75B ON APR 14	0.311B ON MAR 31	17 300	1977
1978	---	9.60 ON APR 26	0.779B ON MAR 1	28 300	1978
1979	44.2 AT 07:25 CST ON MAY 20 *	43.2 ON MAY 20	0.560B ON MAR 1	90 100	1979
1980	9.56 AT 15:00 CST ON APR 19	9.36 ON APR 19	0.540E ON JUN 26	22 400	1980
1981	---	5.16B ON MAR 30	0.600B ON MAR 1	18 900	1981
1982	---	6.17A ON APR 23	0.175B ON MAR 1	17 100	1982
				44 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.001	0.278	0.245	0.064	0.098	0.049	0.348	0.493	---	---	0.196	1977
1978	---	---	0.034	0.492	0.341	0.317	0.062	0.008	0.050	0.132	---	---	0.178	1978
1979	---	---	0.019	0.980	1.73	0.778	0.034	0.001	0.004	0.068	---	---	0.450	1979
1980	---	---	0.034	0.668	0.108	0.002	0	0	0.008	0.069	---	---	0.110	1980
1981	---	---	0.076	0.218	0.147	0.127	0.403	0	0	0.089	---	---	0.133	1981
1982	---	---	0.002	0.182	0.254	0.022	0.083	0.289	0	0.232	---	---	0.134	1982
MEAN	---	---	0.028	0.470	0.471	0.218	0.113	0.058	0.068	0.181	---	---	0.200	MEAN

LOCATION - LAT 51 12 28 N, LONG 100 41 42 W   DRAINAGE AREA, 137 km^2 REGULATED

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	0.858 AT 05:48 CST ON SEP 28	0.844 ON SEP 28	0B ON MAR 1 *	4 160	1977
1978	0.926 AT 19:59 CST ON OCT 27	0.784B ON APR 20	0 ON AUG 4	3 770	1978
1979	---	5.71 B ON APR 21 *	0 ON JUL 21	9 540	1979
1980	1.52 AT 08:30 CST ON APR 19	1.44 ON APR 19	0 ON MAY 30	2 320	1980
1981	4.72 AT 00:06 CST ON JUL 2 *	2.59 ON JUL 2	0B ON MAR 1	2 810	1981
1982	---	1.26 ON AUG 9	0B ON MAR 1	2 830	1982
				4 240	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.089	0.140	0.156	0.140	0.281	1.29	0.133	0.035	---	---	0.285	1968
1969	---	---	0	2.27	1.40	1.04	0.377	0.236	0.227	1.90	---	---	0.927	1969
1970	---	---	0.001	3.73	5.57	0.720	1.93	0.575	0.156	2.51	---	---	1.90	1970
1971	---	---	0.013	7.95	1.11	3.54	1.38	0.538	0.016	0.275	---	---	1.83	1971
1972	---	---	0.012	5.04	3.40	0.242	0.460	0.037	0.004	0.008	---	---	1.14	1972
1973	---	---	0.160	0.577	0.695	4.16	1.41	0.164	0.730	0.510	---	---	1.04	1973
1974	---	---	0.008	7.73	7.61	1.84	0.066	0.038	0.204	0.255	---	---	2.21	1974
1975	---	---	0	3.25	3.27	1.60	0.080	0.001	0.223	0.668	---	---	1.13	1975
1976	---	---	0.002	5.22	0.951	3.90	0.440	0.015	0	0	---	---	1.30	1976
1977	---	---	0	0.778	0.190	0.059	0.082	0.256	1.70	0.891	---	---	0.491	1977
MEAN	---	---	0.029	3.67	2.44	1.72	0.651	0.315	0.339	0.705	---	---	1.23	MEAN

LOCATION - LAT 52 10 20 N, LONG 100 56 30 W   DRAINAGE AREA, 298 km^2 NATURAL FLOW

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	3.60 ON JUL 31	0B ON MAR 1 *	6 030	1968
1969	---	7.90 ON APR 14	0B ON MAR 1	19 600	1969
1970	---	18.9 ON MAY 3	0B ON MAR 1	40 300	1970
1971	---	25.9 ON APR 17	0 ON SEP 22	38 700	1971
1972	16.4 AT 12:00 CST ON APR 22	15.2 ON APR 22	0B ON MAR 1	24 200	1972
1973	16.5 AT 15:55 CST ON JUN 20	15.0 ON JUN 20	0B ON MAR 1	22 100	1973
1974	41.1 B AT 23:15 CST ON APR 19 *	35.4 ON APR 20 *	0 ON AUG 11	46 700	1974
1975	9.23 AT 17:57 CST ON MAY 3	8.52 ON MAY 3	0B ON MAR 1	23 900	1975
1976	19.1 AT 18:37 CST ON JUN 14	16.1 ON JUN 14	0B ON MAR 1	27 400	1976
1977	---	4.42 ON SEP 26	0B ON MAR 1	10 400	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		25 900	MEAN

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05OB016

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.058	0.075	0.027	0.011	0	0	0	0	0	0	---	1961
1962	0	0	0	0.466	0.035	0	0	0	0	0	0	0	0.040	1962
1963	0	0	0.067	0.019	0.017	0.085	0.017	0.001	0	0	0	0	0.017	1963
1964	0	0	0.051	0.189	0.008	0.005	0.001	0	0	0	0	0	0.021	1964
1965	0	0	0.008	0.358	0.084	0.079	0.023	0.002	0.049	0.086	0.039	0	0.060	1965
1966	0	0	0.624	3.48	1.63	0.420	0.235	0.110	0.035	0.010	0.002	0	0.545	1966
1967	0	0	0.179	1.31	2.77	0.706	0.270	0.058	0.042	0.347	0.099	0.001	0.485	1967
1968	0	0	0.141	0.395R	0.111	0.007	0.100R	0.284R	0.167R	0.021	0.002	0	0.103R	1968
1969	0	0	0	7.56	2.94	0.627	0.346	0.117	0.005	0	0	0	0.962	1969
1970	0	0	0	2.09	4.39	2.24	0.990	0.312	0.233	0.067	0.024	0	0.866	1970
1971	0	0	0	8.37	3.95	0.639	0.734	0.166	0.084	0.071	0.013	0.002	1.17	1971
1972	0	0	0.477	3.59	1.47	0.157	0.006	0	0	0	0	0	0.473	1972
1973	0	0	0.149	0.006	0.002	0	0	0	0	0	0	0	0.013	1973
1974	0	0	0	6.61	10.8	3.48	0.645	0.276	0.194	0.135	0.090	0.012	1.86	1974
1975	0	0	0.117	0.736	1.03	0.334	0.028	0.002	0.005	0.006	0.001	0	0.189	1975
1976	0	0	0.017	5.68	1.74	0.517	0.289	0.188	0.045	0.001	0	0	0.701	1976
1977	0	0	0.008	0.074	0.047	0.008	0	0	0.003	0	0	0	0.012	1977
1978	0	0	0.013	2.83	1.23	0.064	0.020	0.011	0	0	0	0	0.346	1978
1979	0	0	0	6.29	11.1	1.69	0.534	0.050	0.071	0.002	0.002	0	1.65	1979
1980	0	0	0.005	0.359	0.057	0.001	0	0	0.006	0.074	0.148	0.009	0.054	1980
1981	0	0.140	0.168	0.598	0.303	0.115	0.016	0.003	0.001	0.002	0.001	0	0.111	1981
1982	0	0	0.168	1.76	0.657	1.92	0.123	0.008	0	0.006	0.004	0.021	0.386	1982
MEAN	0	0.007	0.102	2.40 R	2.02	0.596	0.199R	0.072R	0.043R	0.038	0.019	0.002	0.479	MEAN

LOCATION - LAT 49 01 17 N DRAINAGE AREA, 979 km^2 INTERNATIONAL GAUGING STATION R - REVISED SINCE JAN 1980
LONG 98 36 13 W NATURAL FLOW

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05OB016

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	0.385B ON MAR 27	0B ON MAR 1 *	---	1961
1962	---	2.86 ON APR 18	0 ON JAN 1	1 280	1962
1963	---	0.280 ON MAR 21	0 ON JAN 1	543	1963
1964	---	0.614 ON APR 9	0 ON JAN 1	662	1964
1965	---	1.25 ON APR 11	0B ON JAN 1	1 910	1965
1966	---	6.43 ON APR 14	0B ON JAN 1	17 200	1966
1967	---	8.78 B ON APR 20	0B ON JAN 1	15 300	1967
1968	3.77 AT 07:50 CST ON JUL 30	1.73 R ON AUG 25	0B ON JAN 1	3 240R	1968
1969	---	18.5 A ON APR 11	0B ON JAN 1	30 400	1969
1970	---	7.90 ON APR 25	0B ON JAN 1	27 300	1970
1971	18.6 B AT 00:00 CST ON APR 12	16.2 B ON APR 11	0B ON JAN 1	36 800	1971
1972	---	9.66 ON APR 17	0B ON JAN 1	15 000	1972
1973	0.600B AT 11:25 CST ON MAR 18	0.436B ON MAR 11	0B ON JAN 1	422	1973
1974	23.3 AT 03:28 CST ON MAY 21 *	19.0 ON MAY 21	0B ON JAN 1	58 700	1974
1975	4.47 AT 20:30 CST ON APR 28	2.81 ON MAY 1	0B ON JAN 5	5 960	1975
1976	---	9.74 B ON APR 8	0B ON JAN 1	22 200	1976
1977	0.824 AT 03:41 CST ON MAY 19	0.450 ON MAY 19	0B ON JAN 1	366	1977
1978	6.99 AT 21:00 CST ON APR 27	6.37 ON APR 28	0B ON JAN 1	10 900	1978
1979	---	32.0 B ON APR 21 *	0B ON JAN 1	52 000	1979
1980	1.89 B AT 09:42 CST ON APR 5	1.21 B ON APR 5	0B ON JAN 1	1 720	1980
1981	2.31 AT 22:16 CST ON MAY 22	0.705 ON APR 7	0B ON JAN 1	3 510	1981
1982	---	14.3 ON JUN 6	0B ON JAN 1	12 200	1982
				15 100R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)　B - ICE CONDITIONS　* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

SOURIS RIVER AT MELITA - STATION NO. 05NF001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	---	---	---	---	3.80	2.39	1.04	0.961	0.686	---	---	---	1913
1914	---	---	---	---	---	---	4.27	3.16	1.20	0.555	---	---	---	1914
1915	0	0	0	0.714	2.03	1.10	0.783	0.274	0.639	0.674	0.198	0	0.961	1915
1916	0	0	0	44.2	64.2	37.5	9.60	5.19	1.66	1.54	0.566	0.142	36.4	1916
1917	0.120	0.110	0.473	20.1	26.7	10.4	2.56	0.488	0.273	0.227	0.447	0.060	14.4	1917
1918	0	0	1.82	10.8	4.79	2.05	0.489	0.491	0.342	0.358	0.284	---	4.85	1918
1919	---	---	---	31.2	27.4	3.25	0.682	0.172	0.160	0.368	---	---	---	1919
1920	---	---	---	24.7	43.8	20.4	3.82	1.58	0.811	0.610	---	---	---	1920
1921	---	---	---	5.67	4.10	2.44	4.18	4.44	1.60	0.935	0.531	---	---	1921
1922	---	---	0.946	35.1	28.9	10.1	3.39	1.76	0.892	---	---	---	18.7	1922
1935	---	---	---	---	---	---	---	---	---	0.072	---	---	---	1935
1936	---	---	---	9.39	0.846	0.096	0.040	0	0	---	---	---	---	1936
1975	---	---	0.605	42.5	184	146	60.1	---	---	---	---	---	93.4	1975
1976	---	---	12.5	387	216	76.1	26.4	16.7	8.61	---	---	---	172	1976
MEAN	0.030	0.028	2.33	55.6	54.8	26.1	9.13	2.94	1.43	0.603	0.405	0.067	48.7	MEAN

LOCATION - LAT 49 15 50 N DRAINAGE AREA, 49 000 km²
LONG 100 58 20 W REGULATED

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1882 AND 1904 WERE 850 AND 481 m³/s RESPECTIVELY

SOURIS RIVER AT MELITA - STATION NO. 05NF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1913	---	---	---	---	1913
1914	---	---	---	---	1914
1915	---	5.13 ON JUN 18	0 E ON MAR 1 *	10 100	1915
1916	---	107 ON APR 22	0 B ON MAR 1	383 000	1916
1917	---	29.2 ON MAY 5	0.113B CN MAR 1	152 000	1917
1918	---	15.4 ON APR 10	0.113B ON MAR 1	51 100	1918
1919	---	39.9 ON APR 21	1.73 ON JUN 26	---	1919
1920	---	66.0 ON APR 24	0 B ON APR 1	---	1920
1921	---	14.2 B ON APR 15	0 B ON APR 1	---	1921
1922	---	46.2 ON APR 8	0 B ON MAR 1	197 000	1922
1935	---	0 ON 5(: 0	900 000 ON 5(: 0	---	1935
1936	---	28.0 ON APR 16	0 B ON APR 1	---	1936
1975	---	242 ON MAY 7	0.368B ON MAR 1	985 000	1975
1976	---	555 B ON APR 12 *	5.66 B ON MAR 1	1 810 000	1976
MEAN				513 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.414	13.7	15.1	4.47	0.640	0.509	0.434	0.619	---	---	4.47	1967
1968	---	---	1.25	0.885	0.942	0.497	0.376	1.95	6.78	4.70	---	---	2.17	1968
1969	---	---	0.242	125	153	68.4	20.1	16.7	3.05	1.91	---	---	48.4	1969
1970	---	---	1.39	19.8	80.8	83.0	46.8	12.8	2.41	2.32	---	---	31.1	1970
1971	---	---	2.09	20.8	39.5	19.3	13.0	11.3	2.05	3.65	---	---	14.0	1971
1972	---	---	14.0	72.5	70.8	26.0	19.4	5.00	3.51	4.13	---	---	26.8	1972
1973	---	---	2.15	1.10	5.81	3.12	3.77	1.81	1.76	4.00	---	---	2.95	1973
1974	---	---	1.67	89.0	167	113	36.3	6.08	2.89	1.91	---	---	52.0	1974
1975	---	---	0.920	30.3	219	175	76.1	18.7	9.37	27.5	---	---	69.5	1975
1976	---	---	6.56	483	278	102	35.8	17.3	9.15	3.35	---	---	116	1976
1977	---	---	1.62	1.63	1.53	1.05	0.748	0.375	0.641	0.618	---	---	1.03	1977
1978	---	---	0.719	16.0	11.7	2.17	4.37	6.88	4.48	0.669	---	---	5.86	1978
1979	---	---	1.76	26.7	141	121	37.9	5.84	1.51	0.991	---	---	42.0	1979
1980	---	---	0.921	4.15	5.10	0.755	0.703	0.989	1.05	3.11	---	---	2.10	1980
1981	---	---	6.23	6.88	4.30	4.18	2.02	1.23	1.00	1.02	---	---	3.35	1981
1982	---	---	0.261	35.6	56.2	24.6	2.90	3.78	4.85	6.67	---	---	16.8	1982
MEAN	---	---	2.64	59.2	78.1	46.8	18.8	6.95	3.43	4.20	---	---	27.4	MEAN

LOCATION - LAT 49 37 10 N DRAINAGE AREA, 58 000 km²
LONG 100 15 00 W REGULATED

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	23.3 ON APR 22	0.246B ON MAR 1	94 600	1967
1968	---	7.70 ON SEP 8	0.054 ON JUN 3 *	45 900	1968
1969	---	314 ON APR 21	0.227B ON MAR 1	1 030 000	1969
1970	---	98.3 ON MAY 17	1.30 B ON MAR 31	658 000	1970
1971	---	83.3 ON MAY 4	1.16 ON SEP 4	296 000	1971
1972	---	180 ON APR 27	1.56 B ON MAR 1	568 000	1972
1973	---	12.0 ON MAY 26	0.294 ON APR 23	62 500	1973
1974	---	254 ON APR 28	0.708B ON MAR 23	1 100 000	1974
1975	---	269 ON MAY 11	0.850B ON APR 1	1 470 000	1975
1976	---	702 ON APR 14 *	2.03 ON OCT 21	2 450 000	1976
1977	---	3.54 ON MAY 22	0.244 ON SEP 21	21 700	1977
1978	---	26.9 B ON APR 17	0.255 ON JUL 10	124 000	1978
1979	---	189 ON MAY 26	0.093 ON SEP 16	890 000	1979
1980	---	6.26B ON APR 14	0.227B ON MAR 1	44 400	1980
1981	15.2 AT 08:02 CST ON MAR 17	12.9 ON MAR 17	0.753 ON OCT 23	70 800	1981
1982	79.5B AT 16:41 CST ON APR 15 *	76.7 B ON APR 15	0.085B ON MAR 27	356 000	1982
				580 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	2.27	---	---	---	1912
1913	0.283	---	---	27.4	28.0	4.71	1.42	1.18	1.23	1.05	0.706	0.425	---	1913
1914	0.142	0	0	14.2	19.3	6.70	4.62	2.76	1.56	0.803	0.567	0.142	4.25	1914
1915	0	0	0.057	3.41	1.91	1.41	1.13	0.124	0.846	0.949	0.429	0.057	0.860	1915
1916	0.028	0	0.057	56.0	74.5	46.6	13.7	6.16	2.38	2.24	1.69	0.566	17.0	1916
1917	0	0	0.418	23.9	29.8	14.6	3.78	1.08	0.397	0.363	0.688	0.085	6.27	1917
1918	0	0	2.08	13.0	5.90	3.01	0.766	0.589	0.350	1.04	0.923	0.514	2.35	1918
1919	0.177	0	0.271	37.5	33.2	5.34	1.80	0.523R	0.297R	0.311	0.227	0.028	6.64 R	1919
1920	0	0	0	19.6	51.6	28.0	5.27	2.02	1.29	1.14	0.566	---	---	1920
1921	---	---	---	7.07	5.54	3.50	2.88	5.36	2.12	1.38	0.731R	---	---	1921
1922	---	---	0.663	36.2	30.7	13.1	3.83	2.21	1.14	0.972	1.16	---	---	1922
1923	---	---	---	46.6	57.4	40.2	16.7	13.0	3.89	2.52	2.21	---	---	1923
1924	---	---	---	---	14.0	5.81	7.95	2.08	0.935	1.37	---	---	---	1924
1925	---	---	---	48.1	39.8	28.7	8.30	2.32	1.28	1.42	---	---	---	1925
1926	---	---	---	3.21	3.11	2.22	2.82	1.41	1.21	1.26	---	---	---	1926
1927	---	---	---	42.7	57.5	79.4	52.8	17.1	10.4	8.22	7.99	---	---	1927
1928	---	---	---	43.3	42.1	24.4	32.2	28.3	13.8	5.85	3.24	---	---	1928
1929	---	---	---	12.2	6.73	8.35	2.92	0.563	1.02	0.666	0.321	---	---	1929
1930	---	---	---	35.9	16.8	5.54	2.28	0.400	0.068	0.217	---	---	---	1930
1931	---	---	---	1.14	0.337	0.144	0.088	0.002	0.001	0.001	0.001	0	---	1931
1932	0	0	0	3.56	2.56	1.17	0.698	0.092	0.009	0.104	---	---	---	1932
1933	---	---	2.80 R	29.8	10.4	2.57	4.26	1.48	0.774	0.112	---	---	---	1933
1934	---	---	---	14.0	2.51	0.498	0.042	0	0	0	0	0	---	1934
1935	0	0	---	4.81	2.66	2.06	20.6	4.76	0.935	0.238	0.142	0	---	1935
1936	0	0	0	24.4	2.55	0.712	0.049	0	0	0	0	0	2.28	1936
1937	0	0	0	0.714	0.301	0.421	0.057	0.123	0.001	0	0	0	0.134	1937
1938	0	0	5.64	1.07	0.347	0.107	0.023	0.002	0	0	0	0	0.608	1938
1939	0	0	3.53	8.62	0.295	0.218	0.027	0	0	---	---	---	---	1939
1940	---	---	---	---	0.378	0.058	0.016	0.033	0.020	---	---	---	---	1940
1941	---	---	---	11.7 R	0.980	0.354	0.090	0.045	0.415	0.674	---	---	---	1941
1942	---	---	---	---	14.1	3.47	0.915	0.580	0.895	---	---	---	---	1942
1943	---	---	---	40.6	52.0	43.3	22.3	8.27	1.59	1.91	---	---	---	1943
1944	---	---	---	5.16	9.03	9.31	35.6	8.52	8.94	4.79	---	---	---	1944
1945	---	---	---	24.1	9.83	1.95	2.11	2.51	0.566	0.500	---	---	---	1945
1946	---	---	---	24.6	2.49	0.912	0.766	0.260	1.01	1.62	---	---	---	1946
1947	---	---	---	41.4	29.2	12.2	22.4	10.6	5.01	1.52	---	---	---	1947
1948	---	---	---	---	97.0	59.7	27.1	17.2	4.74	3.25	---	---	---	1948
1949	---	---	---	116	94.0	30.4	8.23	4.03	2.35	1.83	---	---	---	1949
1950	---	---	---	35.2	77.3	71.2	26.4	19.6	10.0	6.64	---	---	---	1950
1951	---	---	---	73.7 R	104	60.7	17.8	3.21	4.80	4.24	---	---	---	1951
1952	---	---	---	28.4	22.3	4.22	2.57	1.93	1.10	0.140	---	---	---	1952
1953	---	---	---	10.8	16.0	23.7	30.4	30.4	6.35	3.11	6.75	1.70	---	1953
1954	3.82	3.55	4.96	10.7	9.90	28.8	48.8	22.3	8.23	16.8	11.2	6.65	14.7	1954
1955	5.25	4.47	3.29	97.4	105	78.6	44.3	16.2	9.27	9.13	4.32	1.56	31.6	1955
1956	0.619	0.642	0.518	74.9	83.9	66.8	21.7	10.1	7.45	6.47	7.51	2.88	23.6	1956
1957	1.05	0.640	5.39	9.25	10.4	9.10	5.70	5.20	3.94	2.66	3.07	2.19	4.90	1957
1958	0.396	0.932	4.16	15.0	4.58	3.20	1.44	0.504	0.481	0.653	0.280	0.023	2.63	1958
1959	0.003	0.003	2.79	3.38	0.678	0.609	0.554	0.174	0.527	1.63	3.46	1.07	1.24	1959
1960	0.853	0.757	0.590	85.4	41.7	17.2	2.35	0.800	0.954	1.10	0.728	0.353	12.7	1960
1961	0.169	0.164	0.796	3.01	1.13	0.336	0.344	0.017	0.041	0.219R	0.298R	0.083	0.550R	1961
1962	0.039	0.046	0.062	10.7	1.37	1.55	0.563	0.726	0.820	1.27	0.284	0.217	1.47	1962
1963	0.072	0	0.928	3.27	1.26	5.93	3.56	0.572	0.664	0.610	0.575	0.161	1.47	1963
1964	0.028	0.063	0.147	13.6 R	13.5	2.04	4.67	0.948	2.14	3.62	0.805	0.147	3.48 R	1964
1965	0.135	0.081	0.098	17.0	12.9	17.0	14.6	6.09	8.37	7.57	2.84	1.65	7.38	1965
1966	1.56	1.17	20.9	23.0	30.0	13.0	4.73	2.02	0.757	0.786	0.575	0.281	8.28	1966
1967	0.252	0.192	0.720	15.3	16.9	5.31	0.682	0.220	0.084	0.662	0.639	0.201	3.43	1967
1968	0.112	0.129	3.73	1.99	0.698	0.496	0.747	1.36	5.97	5.66	1.96	0.601	1.96	1968
1969	0.470	0.608	0.490	159	168	79.9	24.6	18.7	4.03	2.14	1.94	1.80	38.6	1969
1970	1.97	1.89	1.41	32.0	85.9	84.7	50.9	15.8	3.02	2.65	2.22	0.706	23.7	1970
1971	0.434	0.892	1.57	23.0	39.5	20.0	13.2	11.1	2.22	3.27	6.19	3.24	10.4	1971
1972	2.47	2.07	19.6	74.5	75.8	25.6	20.3	7.24	4.11	4.16	6.76	0.721	20.3	1972
1973	0.451	0.898	3.24	1.73	5.25	3.80	3.54	2.06	2.14	4.39	1.04	0.631	2.45	1973
1974	0.564	0.976	1.95	121	174	119	38.8	5.77	3.27	2.43	3.94	1.98	39.5	1974
1975	1.03	0.869	1.06	88.2	212	175	86.5	22.4	10.4	26.8	24.9	12.2	52.1	1975
1976	9.01	7.47	7.50	488	286	107	38.3	20.1	11.1	3.71	2.40	1.83	81.6	1976
1977	1.50	1.08	1.74	2.18	1.96	1.06	1.13	0.498	1.04	0.828	0.610	0.616	1.19	1977
1978	0.770	0.769	0.928	25.8	13.0	2.65	4.44	6.13	4.23	0.523	0.722	0.442	5.03	1978
1979	0.485	0.822	1.58	28.5	137	118	37.1	6.23	1.62	1.03	0.861	0.251	28.0	1979
1980	0.188	0.254	0.941	6.18	4.97	1.18	0.773	1.29	1.34	3.36	3.36	1.96	2.15	1980
1981	1.24	3.64	7.59	6.78	4.52	4.11	2.22	1.88	1.84	1.56	1.65	0.591	3.13	1981
1982	0.142	0.133	1.04	40.8	57.7	26.6	3.04	3.41	4.39	6.38	8.78	1.95	12.9	1982
MEAN	0.831	0.838	2.68 R	36.5 R	38.1	23.9	12.4	5.58 R	2.83 R	2.75 R	2.65 R	1.17	12.7	MEAN

LOCATION - LAT 49 36 05 N DRAINAGE AREA, 60 300 km²
LONG 99 40 55 W REGULATED

R - REVISED SINCE JAN 1980

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1882 AND 1904 WERE 1130 AND 566 m³/s RESPECTIVELY

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	42.5 ON MAY 3	---	---	1913
1914	---	30.9 ON APR 25	0 B ON FEB 1 *	134 000	1914
1915	---	8.44 ON APR 14	0 B ON JAN 1	27 100	1915
1916	---	173 ON APR 19	0 B ON FEB 1	538 000	1916
1917	---	43.0 ON APR 16	0 B ON JAN 1	198 000	1917
1918	---	21.7 ON APR 7	0 B ON JAN 1	74 000	1918
1919	---	57.8 B ON APR 7	0 B ON FEB 1	210 000R	1919
1920	---	79.3 ON APR 27	0 B ON JAN 1	---	1920
1921	---	19.7 ON APR 19	---	---	1921
1922	---	57.5 ON APR 12	0 B ON MAR 1	---	1922
1923	---	167 ON APR 18	---	---	1923
1924	---	---	---	---	1924
1925	---	85.0 E ON APR 3	---	---	1925
1926	---	14.5 ON APR 20	---	---	1926
1927	---	83.8 ON JUN 8	---	---	1927
1928	---	65.1 B ON MAR 30	---	---	1928
1929	---	36.5 B ON APR 15	---	---	1929
1930	---	75.9 B ON APR 5	---	---	1930
1931	---	3.68 ON APR 11	0 B ON APR 1	---	1931
1932	---	7.65 ON APR 15	0 B ON JAN 1	---	1932
1933	---	51.0 RB ON MAR 31	0 RB ON MAR 1	---	1933
1934	---	32.6 B ON APR 7	0 B ON APR 1	---	1934
1935	---	39.9 ON JUL 3	0 ON JAN 1	---	1935
1936	---	68.0 B ON APR 13	0 B ON JAN 1	71 900	1936
1937	---	1.87 ON APR 16	0 ON JAN 1	4 230	1937
1938	---	34.0 B ON MAR 20	0 ON JAN 1	19 200	1938
1939	---	36.2 ON APR 3	0 ON JAN 1	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	---	---	---	1942
1943	---	57.8 ON MAY 15	---	---	1943
1944	---	42.2 ON JUL 18	0 B ON APR 1	---	1944
1945	---	30.6 ON APR 11	---	---	1945
1946	---	50.1 ON APR 7	---	---	1946
1947	---	57.2 ON APR 17	---	---	1947
1948	---	117 ON MAY 9	---	---	1948
1949	---	234 B ON APR 11	---	---	1949
1950	---	107 ON MAY 11	---	---	1950
1951	---	123 R ON APR 28	---	---	1951
1952	---	38.5 ON MAY 2	0 ON OCT 8	---	1952
1953	---	35.7 ON AUG 18	---	---	1953
1954	---	53.2 ON JUL 26	2.55 B ON FEB 2	465 000	1954
1955	---	116 ON APR 21	1.13 B ON DEC 31	997 000	1955
1956	---	205 B ON APR 15	0.311B ON MAR 23	746 000	1956
1957	---	24.1 B ON MAR 23	0.198B ON FEB 2	155 000	1957
1958	---	31.1 ON APR 8	0.003B ON DEC 16	82 900	1958
1959	---	14.2 B ON MAR 27	0.003B ON JAN 1	39 200	1959
1960	263 AT 08:00 CST ON APR 12	229 ON APR 12	0.164B ON DEC 1	400 000	1960
1961	7.14 AT 19:00 CST ON APR 7	5.61 ON APR 7	0.003 ON AUG 11	17 300R	1961
1962	---	65.1 B ON APR 18	0 B ON NOV 11	46 200	1962
1963	15.3 AT 23:00 CST ON JUN 29	14.2 ON JUN 30	0 B ON JAN 26	46 300	1963
1964	---	31.7 B ON APR 16	0.017B ON JAN 20	110 000R	1964
1965	90.3 AT 02:30 CST ON JUL 22	75.3 B ON APR 12	0.020B ON MAR 6	233 000	1965
1966	---	77.6 B ON MAR 21	0.034B ON DEC 10	261 000	1966
1967	---	25.4 ON APR 21	0 ON SEP 9	108 000	1967
1968	8.13 AT 12:10 CST ON SEP 14	8.07 ON SEP 14	0 B ON FEB 18	61 900	1968
1969	326 AT 12:00 CST ON APR 22	323 ON APR 22	0.227B ON APR 5	1 220 000	1969
1970	143 AT 22:07 CST ON APR 26	130 ON APR 26	0.476B ON DEC 31	746 000	1970
1971	59.7 AT 13:15 CST ON APR 16	50.7 ON APR 16	0.351B ON FEB 13	329 000	1971
1972	99.4 AT 24:00 CST ON APR 30	99.4 ON APR 30	0.510B ON DEC 21	642 000	1972
1973	11.9 AT 13:53 CST ON MAY 27	11.8 ON MAY 27	0.405B ON JAN 10	77 200	1973
1974	---	345 A ON APR 19	0.345B ON JAN 21	1 250 000	1974
1975	259 AT 00:35 CST ON MAY 12	259 ON MAY 12	0.804B ON FEB 10	1 640 000	1975
1976	765 B AT 00:00 CST ON APR 11 *	742 B ON APR 11 *	1.45 ON DEC 3	2 580 000	1976
1977	4.45 AT 22:30 CST ON MAY 4	3.23 ON MAY 5	0.153B ON NOV 26	37 500	1977
1978	48.7 AT 09:34 CST ON APR 6	41.3 ON APR 6	0.173B ON DEC 11	159 000	1978
1979	185 AT 04:30 CST ON MAY 26	181 ON MAY 26	0.225B ON DEC 14	882 000	1979
1980	12.3 AT 16:00 CST ON APR 8	10.7 B ON APR 7	0.092B ON JAN 5	68 000	1980
1981	14.5 AT 15:35 CST ON MAR 18	12.0 B ON MAR 18	0.207B ON DEC 31	98 900	1981
1982	125 B AT 02:40 CST ON APR 15	116 B ON APR 15	0.082B ON FEB 19	407 000	1982
MEAN				400 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD   R - REVISED SINCE JAN 1980

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.670	0.024	0.112	0.468	0.418	0.483	0.507	0.455	0.495	0.685	---	1977
1978	0.600	0.564	0.360	17.8	7.71	1.63	6.14	7.08	4.47	0.602	0.593	0.562	4.02	1978
1979	0.715	1.35	4.28	23.9	161	104	28.5	5.40	0.855	0.678	0.165	0.003	27.8	1979
1980	0.169	1.18	0.861	3.64	4.38	1.07	0.988	1.12	1.30	3.57	2.98	2.15	1.95	1980
1981	1.16	0.863	4.54	7.38	3.73	4.67	1.82	1.21	1.11	1.00	0.825	0.071	2.37	1981
1982	0	0	0	27.7	50.5	17.8	3.30	3.68	4.79	6.94	8.00	1.70	10.4	1982
MEAN	0.529	0.791	1.79	13.4	37.9	21.6	6.86	3.16	2.17	2.21	2.18	0.862	9.31	MEAN

LOCATION - LAT 49 05 27 N   LONG 100 57 12 W   DRAINAGE AREA, 43 300 km^2 REGULATED

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	1.61B ON MAR 14	---	---	1977
1978	32.0 AT 11:41 CST ON APR 28	31.4 ON APR 28	0.241B ON MAR 19	127 000	1978
1979	204 AT 13:30 CST ON MAY 21 *	196 ON MAY 21 *	0 B ON DEC 17 *	876 000	1979
1980	7.96 AT 17:16 CST ON APR 29	7.43 ON APR 25	0 B ON JAN 1	61 700	1980
1981	11.3 AT 01:16 CST ON MAR 13	10.8 B ON MAR 13	0 B ON DEC 24	74 600	1981
1982	67.0 AT 10:27 CST ON APR 29	65.7 ON APR 29	0 B ON JAN 1	328 000	1982
				293 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER NEAR MELITA - STATION NO. 05NF009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.005	0.047	0.025	4.53	1.54	0.677	0.586R	0.555	---	---	0.986R	1963
1965	---	---	0.028	3.61	11.8	17.8	5.30	6.11	7.34	6.18	---	---	7.25	1965
1966	---	---	4.76	18.7	24.9	5.77	1.94	1.01	0.543	0.565	---	---	7.26	1966
1967	---	---	0.131	9.63	14.0	3.24	0.654	0.466	0.470	0.733	---	---	3.66	1967
1968	---	---	0.310	0.233	0.148	0.422	0.421	0.829	6.23	5.09	---	---	1.70	1968
1969	---	---	0.172	139	138	51.0	15.0	14.8	1.24	0.866	---	---	44.7	1969
1970	---	---	1.05	19.8	64.9	80.1	36.9	10.2	0.228	0.406	---	---	26.6	1970
1971	---	---	1.56	22.7	38.4	11.6	9.48	8.71	1.51	2.91	---	---	12.1	1971
1972	---	---	17.0	77.7	55.9	23.5	17.6	3.27	2.86	3.98	---	---	25.1	1972
1973	---	---	1.32	0.570	5.44	1.75	3.70	1.07	2.21	3.28	---	---	2.43	1973
1974	---	---	2.35	89.1	137	100	27.7	3.39	2.14	1.78	---	---	45.2	1974
1975	---	---	---	---	---	---	---	10.9	5.16	21.0	---	---	---	1975
1976	---	---	12.5	358	212	73.8	25.5	16.7	8.79	1.78	---	---	87.9	1976
1977	---	---	0.856	0.186	0.040	0.480	0.534	0.508	0.585	0.490	---	---	0.460	1977
1978	---	---	0.429	16.9	8.21	1.65	6.06	6.41	3.57	0.743	---	---	5.47	1978
MEAN	---	---	3.03	54.0	50.8	26.8	10.9	5.67	2.90 R	3.36	---	---	19.3	MEAN

LOCATION - LAT 49 10 20 N DRAINAGE AREA, 48 200 km^2
LONG 101 01 48 W REGULATED

R - REVISED SINCE JAN 1980

SOURIS RIVER NEAR MELITA - STATION NO. 05NF009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	13.8 AT 02:45 CST ON JUN 25	13.4 ON JUN 25	0 ON MAR 1 *	20 800R	1963
1965	23.8 AT 17:30 CST ON JUN 26	23.7 ON JUN 26	0.028B ON MAR 1	153 000	1965
1966	---	30.6 A ON MAY 4	0.255 ON OCT 31	154 000	1966
1967	24.9 AT 18:30 CST ON APR 19	24.3 ON APR 19	0 B ON MAR 1	77 400	1967
1968	---	7.53 ON SEP 9	0 A ON APR 22	36 100	1968
1969	---	306 A ON APR 17	0.028B ON MAR 16	947 000	1969
1970	95.1 AT 23:51 CST ON JUN 7	94.3 ON JUN 5	0.008 ON OCT 6	564 000	1970
1971	---	44.7 A ON MAY 6	1.06 ON OCT 8	257 000	1971
1972	106 AT 17:07 CST ON APR 21 *	104 ON APR 21	1.42 B ON MAR 1	532 000	1972
1973	11.8 AT 08:07 CST ON MAY 24	11.7 ON MAY 23	0.467 ON APR 17	51 400	1973
1974	---	251 A ON APR 25	0.487 ON OCT 22	958 000	1974
1975	---	---	---	---	1975
1976	---	510 B ON APR 12 *	0.142 ON OCT 19	1 860 000	1976
1977	---	1.61B ON MAR 14	0.007E ON MAY 3	9 740	1977
1978	26.5 AT 17:05 CST ON APR 28	26.3 ON APR 28	0.334B ON MAR 10	116 000	1978
				410 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05NF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1929	---	---	---	---	---	---	---	0.380	0.185	0.234	---	---	---	1929
1930	---	---	---	26.1	11.0	2.87	1.16	0.154	0.245	0.314	0.429	0.142	---	1930
1931	0.014	0.014	0.028	1.66	0.636	0.136	0.063	0	0	0.149	0.224	0.057	0.247	1931
1932	0.028	0.028	0.148	2.09	1.71	0.744	0.356	0.059	0	0	0.239	0.057	0.454	1932
1933	0.028	0.028	3.97	24.8	6.21	5.19	5.92	1.56	0.291	0.174	0.397	0.085	4.05	1933
1934	0.028	0.028	2.02	8.33	1.59	0.131	0.022	0	0	0	0	0	1.01	1934
1935	0	0	0.196	1.57	2.13	0.506	4.61	1.94	0.222	0.009	0	0	0.944	1935
1936	0	0	0	0.909	0	0.218	0.104	0	0	0	0	0	0.101	1936
1937	0	0	0	0.052	0	0	0	0	0	0	0	0	0.004	1937
1938	0	0	0.004	0.001	0	0.211	0	0.222	0.008	0	0	0	0.037	1938
1939	0	0	0.001	0.006	0	0.239	0	0.130	0.034	0.290	0	0	0.059	1939
1940	0	0	0	0.007	0.028	0.020	0.067	0.073	0.069	0.084	0.001	0	0.029	1940
1941	0	0	0	0	0.003	0.180	0.207	0.328	0.467	0.244	0.019	0	0.121	1941
1942	0	0	0.017	11.6	7.15	0.727	0.521	0.793	0.660	0.712	0.027	0	1.85	1942
1943	0	0	0.004	17.8	59.6	33.2	23.4	3.39	2.42	1.40	0.339	0.004	11.9	1943
1944	0	0.167	0.649	5.26	7.54	8.33	36.6	3.48	9.70	2.67	1.90	3.98	6.73	1944
1945	3.32	2.04	4.45	21.4	4.76	0.741	0.540	2.52	0.516	0.532	0.019	0	3.39	1945
1946	0	0	0.056	9.09	0.687	0.545	0.444	0.585	1.80	0.341	0.015	0	1.12	1946
1947	0.008	0.029	0.029	29.5	19.2	5.52	10.8	8.11	2.08	0.303	0.287	0.023	6.34	1947
1948	0.017	0.006	0.013	25.2	62.1	48.0	9.63	7.01	1.21	0.565	1.33	1.89	13.1	1948
1949	0.913	0.381	0.213	91.3	41.2	17.3	1.12	1.12	0.918	0.335	0.028	0.036	12.9	1949
1950	0.071	0.085	0.174	20.8	58.6	37.0	10.5	4.23	1.76	0.790	0.377	1.34	11.4	1950
1951	3.43	4.89	2.76	52.2	70.6	43.0	6.81	0.754	4.12	2.07	1.85	4.59	16.4	1951
1952	1.11	0.788	3.36	22.2	15.3	0.278	2.66	2.16	0.387	0.096	0.697	1.21	4.19	1952
1953	0.476	0.387	0.705	5.20	13.3	22.5	34.3	28.7	4.09	4.40	5.00	2.98	10.3	1953
1954	3.97	3.83	4.32	9.84	6.75	22.3	44.2	11.0	2.02	12.7	5.17	2.85	10.8	1954
1955	1.92	1.96	2.03	59.8	57.4	42.4	17.6	7.95	3.45	3.75	0.207	0.079	16.6	1955
1956	0.356	0.425	1.49	29.1	67.5	28.9	9.63	4.60	3.99	3.22	5.28	1.56	13.0	1956
1957	1.27	0.755	1.07	0.500	3.94	5.32	2.06	0.749	0.655	0.632	3.33	1.45	1.81	1957
1958	0.501	0.400	0.011	0.198	1.76	2.43	0.931	0.813	0.604	0.417	0.029	0.003	0.675	1958
1959	0.003	0.001	0.027	0.008	0.021	0.704	0.681	0.543	0.465	0.571	1.82	0.414	0.438	1959
1960	0.562	0.567	1.65	46.2	23.9	12.8	0.585	0.388	0.936	0.668	0.145	0.059	7.32	1960
1961	0.002	0.014	0.154	0.150	0.292	0.585	0.544	0.303	0.276	0.314	0.096	0.029	0.231	1961
1962	0	0	0	0.055	0.140	0.136	0.185	0.294	0.294	0.480	0.010	0.003	0.134	1962
1963	0.003	0.003	0.008	0.003	0.011	4.55	1.22	0.614	0.576	0.654	0.041	0	0.638	1963
1964	0	0	0.003	0.011	4.02	1.25	2.99	0.482	2.81	2.34	0.006	0.003	1.17	1964
1965	0.002	0.003	0.003	0.423	10.2	17.6	4.73	6.58	7.59	5.78	2.00	1.37	4.70	1965
1966	1.38	1.17	3.00	13.4	21.9	4.93	2.03	1.11	0.638	0.625	0.194	0.003	4.22	1966
1967	0.001	0	0.007	9.49	13.4	2.58	0.729	0.640	0.500	0.713	0.040	0.002	2.35	1967
1968	0	0	0.006	0.010	0.160	0.688	0.558	0.626	5.61	3.41	0.888	0.637	1.05	1968
1969	0.371	0.109	0.172	91.8	128	50.8	11.0	14.2	0.958	0.681	0.704	2.18	25.2	1969
1970	2.46	1.61	1.22	14.2	66.4	77.2	33.7	8.99	0.568	0.565	0.334	0.093	17.3	1970
1971	0.859	1.62	1.67	19.9	32.5	9.44	9.82	8.43	0.949	2.87	6.25	2.77	8.13	1971
1972	2.16	1.67	8.78	67.5	45.6	21.2	16.7	2.79	2.71	4.23	6.39	0.641	15.0	1972
1973	0.526	1.23	0.743	0.130	5.83	1.28	3.94	0.915	2.30	2.98	0.685	0.672	1.78	1973
1974	0.651	1.63	2.57	68.6	121	91.6	22.0	2.87	2.12	1.67	2.95	0.552	26.6	1974
1975	0.624	0.645	1.03	29.8	155	119	47.6	6.74	2.50	13.4	10.2	5.68	32.9	1975
1976	5.41	5.38	12.5	251	169	62.9	22.1	14.9	6.46	1.13	0.996	1.47	45.9	1976
1977	1.11	0.825	0.560	0.018	0.005	0.609	0.595	0.589	0.593	0.595	0.529	0.732	0.562	1977
1978	0.686	0.744	0.476	15.3	8.49	1.60	6.09	6.20	3.79	0.799	0.812	0.958	3.84	1978
1979	1.05	2.16	3.04	22.6	141	89.8	23.1	4.35	0.684	0.811	0.179	0.017	24.2	1979
1980	0.202	1.15	0.663	2.82	3.58	0.699	0.766	0.774	1.23	3.30	3.17	2.07	1.70	1980
1981	1.19	0.751	4.60	7.01	3.69	4.43	1.36	1.20	1.03	0.921	0.833	0.029	2.25	1981
1982	0	0	0	28.4	49.6	18.5	2.96	3.84	4.20	6.57	7.29	1.59	10.3	1982
MEAN	0.706	0.722	1.36	22.0	28.8	17.4	8.31	3.36	1.70	1.71	1.39	0.836	7.45	MEAN

LOCATION - LAT 48 59 47 N DRAINAGE AREA, 43 000 km² INTERNATIONAL GAUGING STATION
LONG 100 57 29 W REGULATED

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05NF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)
1929	---	---	---	---
1930	---	---	---	---
1931	---	3.34 B ON APR 6	0 ON JUL 20 *	7 790
1932	---	4.19 ON MAY 6	0 ON AUG 17	14 400
1933	---	32.0 ON APR 17	0.028B ON JAN 1	128 000
1934	---	14.8 ON APR 7	0 ON JUL 27	31 800
1935	---	7.90 ON JUL 7	0 ON JAN 1	29 800
1936	---	3.94 ON APR 14	0 ON JAN 1	3 200
1937	---	0.255 ON APR 11	0 ON JAN 1	136
1938	1.44 AT 12:00 CST ON JUN 18	1.19 ON JUN 18	0 ON JAN 1	1 180
1939	0.821 ON OCT 23	0.765 ON OCT 21	0 ON JAN 1	1 850
1940	---	0.396 ON OCT 13	0 ON JAN 1	925
1941	1.02 AT 06:00 CST ON JUN 12	0.708 ON SEP 8	0 ON JAN 1	3 820
1942	31.1 AT 19:30 CST ON APR 21	28.3 ON APR 22	0 B ON JAN 1	58 300
1943	---	63.4 ON MAY 22	0 ON JAN 1	374 000
1944	---	56.6 ON JUL 9	0 B ON JAN 6	213 000
1945	---	29.4 ON MAR 31	0 B ON NOV 16	107 000
1946	---	17.0 ON APR 8	0 B ON JAN 1	35 400
1947	---	51.0 ON APR 19	0 ON JAN 1	200 000
1948	---	82.1 ON APR 26	0 ON JAN 17	414 000
1949	181 ON APR 18	178 ON APR 18	0.028 ON NOV 1	405 000
1950	75.0 AT 22:00 CST ON MAY 17	74.5 ON MAY 17	0.057B ON JAN 1	358 000
1951	---	87.8 ON APR 29	0.054 ON NOV 7	518 000
1952	---	40.2 ON APR 24	0.054 ON OCT 31	132 000
1953	43.9 AT 13:00 CST ON AUG 13	43.6 ON AUG 13	0.085E ON SEP 18	324 000
1954	50.4 AT 13:00 CST ON JUL 13	49.8 ON JUL 14	0.623 ON SEP 21	341 000
1955	99.1 AT 20:00 CST ON APR 14	97.1 ON APR 14	0.028E ON DEC 6	523 000
1956	86.1 AT 23:00 CST ON MAY 21	83.0 ON MAY 22	0.227E ON JAN 1	412 000
1957	---	7.59 ON JUN 14	0.099 ON APR 21	57 100
1958	15.9 AT 15:00 CST ON MAY 12	5.72 ON MAY 12	0 ON MAR 6	21 300
1959	5.30 ON JUN 3	5.30 ON NOV 6	0.001E ON FEB 1	13 800
1960	60.0 AT 09:00 CST ON APR 23	57.8 ON APR 23	0 ON DEC 26	232 000
1961	---	0.736 ON JUN 2	0 ON JAN 1	7 300
1962	5.89 AT 10:30 CST ON AUG 7	0.850 ON OCT 17	0 ON JAN 1	4 240
1963	17.0 AT 11:30 CST ON JUN 24	15.0 ON JUN 23	0 ON MAR 6	20 100
1964	---	14.7 ON MAY 16	0 ON JAN 1	37 000
1965	24.5 AT 17:00 CST ON JUN 28	24.1 ON JUN 27	0 ON JAN 11	188 000
1966	24.1 AT 03:00 CST ON MAY 2	24.0 ON MAY 3	0.001 ON DEC 17	133 000
1967	25.2 AT 19:00 CST ON APR 20	24.2 ON APR 20	0 ON JAN 31	74 200
1968	8.27 AT 09:00 CST ON SEP 9	7.84 ON SEP 8	0 ON JAN 1	33 000
1969	178 AT 14:00 CST ON APR 22	176 ON APR 22	0.028B ON MAR 16	794 000
1970	88.3 AT 07:00 CST ON JUN 6	88.1 ON JUN 6	0.045 ON DEC 1	547 000
1971	38.2 AT 02:00 CST ON APR 30	37.9 ON APR 30	0.048 ON JAN 1	257 000
1972	86.7 ON APR 20	86.4 ON APR 17	0.510 ON DEC 12	474 000
1973	12.6 ON MAY 20	12.4 ON MAY 20	0.011 ON APR 4	56 100
1974	159 AT 21:00 CST ON APR 25	158 ON APR 25	0.538 ON DEC 4	837 000
1975	190 AT 07:00 CST ON MAY 7	187 ON MAY 7	0.453 ON SEP 7	1 040 000
1976	357 AT 18:00 CST ON APR 26 *	351 ON APR 26 *	0.037 ON OCT 15	1 450 000
1977	---	1.56 B ON MAR 13	0.003 ON APR 18	17 700
1978	24.0 AT 17:30 CST ON APR 22	22.0 ON APR 22	0.283B ON MAR 9	121 000
1979	167 AT 21:00 CST ON MAY 21	165 ON MAY 21	0.009 ON NOV 14	765 000
1980	8.04 AT 17:00 CST ON APR 24	7.08 ON APR 29	0.025B ON JAN 14	53 800
1981	---	9.34 ON APR 24	0 ON DEC 9	71 100
1982	---	67.1 ON APR 24	0 B ON JAN 1	325 000
MEAN				235 000

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 06GA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1965	---	---	---	---	---	---	---	---	---	57.8	50.3	32.5	---
1966	---	---	---	24.4	177	360	175	88.5	50.0	27.4	25.6	24.0	---
1967	21.1	16.4	12.3	---	---	---	203	93.8	51.7	---	---	---	---
1968	---	14.3	14.9	---	---	---	134	77.8	93.4	126	95.6	63.9	---
1969	38.2	23.4	21.3	21.8	30.6	67.9	69.1	61.8	270	173	98.8	49.8	77.2
1970	32.8	21.0	18.7	22.0	98.0	195	97.1	83.1	92.0	94.7	139	76.0	80.9
1971	37.2	28.1	21.3	---	---	160	289	220	289	202	180	104	---
1972	53.8	31.1	24.3	23.4	205	234	193	129	127	115	88.5	62.4	108
1973	38.8	29.4	25.1	20.7	147	118	76.0	87.4	37.0	36.0	32.8	24.6	52.9
1974	19.6	17.0	15.0	---	---	---	88.5	127	110	77.5	54.4	40.7	---
1975	31.8	21.1	15.9	25.6	---	---	294	233	189	112	79.8	49.6	---
1976	32.6	25.4	22.2	27.7	161	170	115	71.8	137	132	96.9	61.7	87.9
1977	39.6	30.0	27.5	81.6	213	230	232	172	124	91.3	52.7	26.1	111
1978	18.8	18.6	18.6	18.6	---	---	129	216	279	205	108	53.1	---
1979	27.6	16.0	10.6	10.8	---	---	92.1	72.3	72.8	94.4	62.9	38.8	---
1980	24.6	16.7	13.0	30.5	122	175	123	279	341	192	107	50.8	123
1981	28.3	25.9	24.9	24.6	125	146	72.0	36.0	37.4	38.8	35.3	19.8	51.3
1982	12.7	10.0	8.74	8.77	143	199	105	63.0	79.0	61.4	36.7	27.0	63.1
MEAN	30.5	21.5	18.4	26.2	142	187	146	122	135	110	79.1	47.3	83.9

LOCATION - LAT 58 08 35 N DRAINAGE AREA, 12 200 km^2
LONG 98 13 40 W NATURAL FLOW

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 06GA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	---	---	---	1965
1966	---	532 ON JUN 3 *	---	---	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	323 ON SEP 7	21.0 B ON FEB 28	2 430 000	1969
1970	---	244 ON JUN 5	16.7 B ON MAR 3	2 550 000	1970
1971	374 AT 18:07 CST ON JUL 13	371 ON JUL 14	---	---	1971
1972	337 AT 18:17 CST ON MAY 16	328 ON MAY 16	21.5 B ON APR 11	3 400 000	1972
1973	236 AT 17:30 CST ON MAY 14	225 ON MAY 14	17.4 B ON APR 29	1 670 000	1973
1974	---	---	---	---	1974
1975	362 AT 18:03 CST ON JUL 3	360 ON JUL 3	15.2 B ON MAR 21	---	1975
1976	234 AT 13:00 CST ON MAY 21	232 ON MAY 21	21.9 B ON MAR 16	2 780 000	1976
1977	278 AT 17:36 CST ON JUL 24	276 ON JUL 22	19.9 B ON DEC 31	3 490 000	1977
1978	365 AT 14:12 CST ON AUG 25	360 ON AUG 24	18.6 B ON JAN 13	---	1978
1979	---	---	9.54B ON APR 1	---	1979
1980	504 AT 17:20 CST ON AUG 29 *	500 ON AUG 29	12.5 B ON MAR 23	3 880 000	1980
1981	245 AT 18:17 CST ON MAY 23	243 ON MAY 23	15.2 B ON DEC 31	1 620 000	1981
1982	235 AT 14:10 CST ON JUN 13	230 ON JUN 14	8.46B ON MAR 25 *	1 990 000	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 650 000	MEAN

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05OF017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	0.040	0	0	0	---	---	---	1963
1964	---	---	0	0.634	0.062	0.030	0.027	0.033	0.365	0.039	---	---	0.146	1964
1965	---	---	0	1.17	0.414	0.080	0.023	0	0.010	0.007	---	---	0.211	1965
1966	---	---	0.760	0.784	0.725	0.054	0.189	0.009	0	0	---	---	0.316	1966
1967	---	---	0.200	1.46	0.296	0.022	0.080	0	0	0	---	---	0.255	1967
1968	---	---	0.096	0.070	0.430	0.051	0.693	1.45	0.306	0.156	---	---	0.403	1968
1969	---	---	0	2.20	0.254	0.465	0.415	0.046	0.003	0.011	---	---	0.419	1969
1970	---	---	0	2.65	1.67	0.129	0.018	0	0	0	---	---	0.554	1970
1971	---	---	0	1.58	0.105	0.177	0.159	0.001	0.135	0.304	---	---	0.309	1971
1972	---	---	0.037	1.38	0.208	0.026	0.007	0.001	0	0	---	---	0.305	1972
1973	---	---	0.119	0.025	0.004	0.007	0.016	0.001	0	0	---	---	0.022	1973
1974	---	---	0	2.56	1.63	0.121	0.004	0	0	0	---	---	0.535	1974
1975	---	---	0	0.575	0.193	0.265	0.027	0	0	0	---	---	0.131	1975
1976	---	---	0.046	1.72	0.073	0.004	0	0	0	0	---	---	0.226	1976
1977	---	---	0	0.006	0.092	0.010	0	0	0.108	0.008	---	---	0.028	1977
1978	---	---	0.047	1.27	0.321	0.177	0.126	0	0.034	0.005	---	---	0.245	1978
1979	---	---	0	3.42	1.21	0.255	0.029	0.007	0	0	---	---	0.608	1979
1980	---	---	0	0.303	0.002	0	0	0	0	0	---	---	0.037	1980
1981	---	0.059	0.047	0.010	0.010	0.013	0.001	0.012	0	0	---	---	0.012	1981
1982	---	---	0.112	0.302	0.024	0.004	0	0	0	0.008	---	---	0.056	1982
MEAN	---	0.059	0.119	1.16	0.407	0.099	0.090	0.078	0.048	0.027	---	---	0.253	MEAN

LOCATION - LAT 49 22 50 N DRAINAGE AREA, 73.3 km^2
LONG 98 14 55 W NATURAL FLOW

REMARKS - FORMERLY PUBLISHED UNDER STA. NO.05OB026. 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE .516 AND 0 M3/S OCCURRED IN FEB

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05OF017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	0 ON JUL 31 *	---	1963
1964	13.1 ON SEP 1	5.47 ON SEP 1	0 ON MAR 1	3 100	1964
1965	---	7.93 B ON APR 13	0B ON MAR 1	4 870	1965
1966	14.8 AT 01:30 CST ON MAY 5	8.35 ON MAY 5	0B ON MAR 1	6 690	1966
1967	24.4 AT 15:00 CST ON APR 20	15.0 ON APR 20	0B ON MAR 1	5 400	1967
1968	24.6 AT 07:30 CST ON AUG 24 *	18.6 ON AUG 24	0B ON MAR 1	8 530	1968
1969	---	10.3 B ON APR 12	0B ON MAR 1	8 860	1969
1970	13.4 AT 03:50 CST ON APR 29	12.8 ON APR 29	0 ON MAR 1	11 700	1970
1971	---	11.4 B ON APR 8	0 ON MAR 1	6 420	1971
1972	---	6.06 B ON APR 9	0B ON MAR 1	6 450	1972
1973	---	0.255B ON MAR 11	0B ON MAR 1	659	1973
1974	17.9 AT 01:12 CST ON MAY 21	14.9 ON APR 17	0B ON MAR 1	11 300	1974
1975	14.2 AT 14:20 CST ON JUN 28	4.11 ON JUN 28	0B ON MAR 1	2 770	1975
1976	9.94 AT 23:27 CST ON APR 4	6.20 ON APR 5	0B ON MAR 1	4 790	1976
1977	1.70 AT 06:05 CST ON MAY 10	0.923 ON MAY 10	0 ON MAR 1	580	1977
1978	11.6 AT 02:25 CST ON MAY 26	8.55 ON APR 6	0B ON MAR 1	5 190	1978
1979	---	28.0 E ON APR 19 *	0B ON MAR 1	12 900	1979
1980	2.05 AT 23:39 CST ON APR 6	1.50 ON APR 5	0B ON MAR 1	791	1980
1981	1.30 AT 06:45 CST ON JUN 24	0.267E ON MAR 15	0 ON MAR 1	249	1981
1982	3.62 AT 23:07 CST ON APR 11	2.43 ON APR 12	0B ON MAR 1	1 180	1982
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 360	MEAN

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.623	0.038	0.020	---	---	---	---	---	---	---	1964
1965	---	---	0	1.55	0.618	0.190	0.106	0	0.028	0	---	---	0.302	1965
1966	---	---	0.401	1.32	1.27	0.048	0.892	0.037	0	0	---	---	0.496	1966
1967	---	---	0.187	1.76	0.454	0.030	0.471	0	0	0	---	---	0.361	1967
1968	---	---	0.118	0.149	0.576	0.051	0.625	2.24	0.510	0.157	---	---	0.557	1968
1969	---	---	0	4.38	0.389	0.529	1.12	0.109	0.016	0.010	---	---	0.810	1969
1970	---	---	0	5.63	2.46	0.164	0.034	0	0	0	---	---	1.03	1970
MEAN	---	---	0.101	2.20	0.829	0.140	0.541	0.398	0.092	0.028	---	---	0.593	MEAN

LOCATION - LAT 49 24 55 N DRAINAGE AREA, 135 km²
LONG 98 09 38 W NATURAL FLOW

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	---	0B ON MAR 1 *	---	1964
1965	---	13.8B ON APR 13	0B ON MAR 1	6 400	1965
1966	16.6 AT 04:30 CST ON MAY 5	12.0 ON MAY 5	0B ON MAR 1	10 500	1966
1967	---	17.4B ON APR 21	0B ON MAR 1	7 620	1967
1968	---	19.1 ON AUG 25	0B ON MAR 1	11 800	1968
1969	---	20.0 ON APR 11	0B ON MAR 1	17 200	1969
1970	26.6 AT 05:20 CST ON APR 26 *	21.1 ON APR 26 *	0B ON MAR 1	21 700	1970
MEAN				12 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05OD031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	0.616	0.524	0.096	---	1928
1929	0.057	0.028	0.343	1.16	1.46	1.60	0.623	0.042	0.034	0.085	0.174	---	---	1929
1930	---	---	---	2.34	10.3	2.83	5.98	0.276	0.043	0.164	0.760	---	---	1930
1931	---	---	---	2.54	2.28	0.757	0.396	0.079	0.069	0.230	---	---	---	1931
1932	---	---	---	5.34	3.92	1.09	1.11	0.257	0.421	1.09	1.52	---	---	1932
1933	---	---	---	7.50	3.87	2.08	0.072	0.013	0.026	0.055	---	---	---	1933
1934	---	---	---	0.457	0.345	0.350	0.074	0.025	0.011	0.133	---	---	---	1934
1935	---	---	---	2.03	2.42	0.864	0.861	0.940	0.414	0.255	---	---	---	1935
1936	---	---	---	4.93	3.16	0.680	0.037	0.089	0.088	0.038	0.033	---	---	1936
1937	---	---	---	3.48	8.01	2.51	8.93	2.45	0.449	0.337	---	---	---	1937
1938	---	---	1.06	2.71	9.24	1.99	0.214	0.036	0.015	0.029	0.039	---	---	1938
1939	---	---	---	---	0.195	0.477	0.049	0.029	0.022	---	---	---	---	1939
1940	---	---	---	0.506	0.471	0.127	0.044	0.028	0.032	0.060	0.233	0.075	---	1940
1941	0.051	0.044	0.040	5.32	1.12	4.62	0.399	0.038	11.9	7.33	1.14	0.190	2.67	1941
1942	0.033	0.032	2.64	5.40	5.78	1.50	0.290	2.54	10.5	1.16	0.368	0.087	2.52	1942
1943	0.068	0.062	0.076	8.79	6.62	8.62	1.56	0.363	0.709	0.248	0.278	0.074	2.28	1943
1944	0.035	0.019	0.039	2.74	3.15	12.2	1.60	2.45	3.99	0.865	3.05	0.389	2.53	1944
1945	0.089	0.072	5.46	7.90	3.93	1.80	2.82	1.90	5.54	2.35	0.789	0.180	2.74	1945
1946	0.093	0.080	2.75	4.06	3.09	0.685	0.630	0.030	0.089	0.203	0.167	0.067	1.00	1946
1947	0.054	0.019	0.021	1.49	2.42	9.55	0.621	0.794	0.799	2.00	0.572	0.154	1.54	1947
1948	0.098	0.070	0.119	9.67	4.43	0.740	2.08	2.83	0.132	0.066	0.135	0.068	1.70	1948
1949	0.051	0.048	0.062	4.99	3.16	0.825	0.192	0.220	0.033	0.524	0.757	0.112	0.914	1949
1950	0.054	0.066	0.070	5.89	20.1	4.32	2.58	0.315	4.98	3.74	0.709	0.155	3.60	1950
1951	0.095	0.099	0.192	6.39	4.92	0.778	0.059	0.169	0.529	0.628	0.310	0.037	1.18	1951
1952	0.015	0.042	0.070	0.948	0.338	0.371	0.631	0.104	0.028	0.027	0.051	0.025	0.220	1952
1953	0.026	0.024	0.217	0.795	1.42	3.01	1.00	0.108	0.222	0.208	0.165	0.113	0.610	1953
1954	0.113	0.046	0.103	4.51	5.69	3.60	0.331	0.108	0.271	3.158	0.149	0.104	1.27	1954
1955	0.057	0.050	0.048	5.59	2.77	6.57	0.987	0.088	0.340	1.01	0.425	0.110	1.50	1955
1956	0.055	0.062	0.109	7.13	7.65	2.09	6.34	1.36	2.95	0.796	3.06	0.162	2.65	1956
1957	0.042	0.047	1.18	3.56	4.68	6.05	3.80	0.427	0.701	1.06	0.758	0.087	1.87	1957
1958	0.047	0.121	0.297	0.390	0.314	0.237	2.64	0.290	0.101	0.413	0.834	0.228	0.497	1958
1959	0.105	0.046	0.206	4.17	6.18	4.80	1.15	0.479	0.426	2.74	0.652	0.186	1.77	1959
1960	0.080	0.050	0.045	6.88	3.07	2.18	0.883	0.311	0.095	0.125	0.394	0.082	1.18	1960
1961	0.035	0.038	0.494	0.989	1.48	0.293	0.021	0.003	0.034	0.071	0.072	0.030	0.298	1961
1962	0.014	0.010	0.025	1.96	8.51	6.27	1.33	4.16	1.16	0.519	0.588	0.256	2.08	1962
1963	0.018	0.019	0.538	7.70	4.26	4.81	0.678	0.080	0.023	0.033	0.039	0.021	1.51	1963
1964	0.008	0.009	0.015	1.81	3.90	4.47	1.64	0.230	2.04	3.48	0.757	0.070	1.54	1964
1965	0.044	0.035	0.051	10.6	10.9	4.96	5.71	0.458	2.50	4.82	1.65	0.809	3.55	1965
1966	0.293	0.113	1.31	17.9	11.6	3.17	1.20	0.397	0.462	0.263	0.171	0.092	3.08	1966
1967	0.035	0.006	0.209	10.9	5.77	0.991	0.755	0.090	0.017	0.037	0.035	0.035	1.57	1967
1968	0.019	0.018	0.789	1.91	1.31	7.53	3.98	4.54	2.22	1.47	0.755	0.154	2.06	1968
1969	0.045	0.035	0.132	11.5	4.17	5.27	0.934	0.703	0.162	0.943	0.408	0.098	2.02	1969
1970	0.048	0.044	0.058	8.19	14.5	7.62	0.666	0.184	0.282	0.371	0.667	0.155	2.74	1970
1971	0.081	0.047	0.062	4.66	2.80	1.83	1.05	0.281	0.176	0.703	1.88	0.185	1.14	1971
1972	0.070	0.032	0.314	6.49	3.81	0.808	0.061	0.086	0.330	0.436	0.441	0.065	1.07	1972
1973	0.025	0.032	0.822	0.791	1.13	1.03	0.778	1.56	2.56	3.44	0.970	0.252	1.12	1973
1974	0.089	0.068	0.063	16.0	13.4	2.92	0.159	2.23	1.22	0.883	0.521	0.105	3.14	1974
1975	0.068	0.066	0.054	5.35	5.85	3.26	1.34	0.139	0.158	0.141	0.152	0.051	1.39	1975
1976	0.046	0.050	0.131	4.01	1.33	1.62	0.587	0.047	0.018	0.029	0.031	0.005	0.654	1976
1977	0.007	0.004	0.035	0.268	0.174	0.250	0.181	0.021	0.548	0.879	0.987	0.380	0.311	1977
1978	0.089	0.045	0.080	8.47	3.69	0.940	1.04	0.207	0.200	0.118	0.092	0.054	1.25	1978
1979	0.037	0.028	0.125	9.50	7.25	2.14	0.159	0.071	0.054	0.046	0.056	0.040	1.62	1979
1980	0.020	0.029	0.049	0.916	0.063	0.003	0.001	0.079	0.094	0.311	0.306	0.053	0.159	1980
1981	0.025	0.075	0.272	0.203	0.471	3.41	0.806	0.706	1.85	3.47	1.30	0.406	1.08	1981
MEAN	0.058	0.046	0.483	4.99	4.58	2.90	1.36	0.668	1.17	0.966	0.623	0.142	1.65	MEAN

LOCATION - LAT 48 59 33 N DRAINAGE AREA, 355 km^2 INTERNATIONAL GAUGING STATION
LONG 95 39 43 W NATURAL FLOW

REMARKS - FORMERLY PUBLISHED UNDER STA. NO. 05OD003

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05OD031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	4.81 AT 08:00 CST ON MAY 30	4.67 ON MAY 30	---	---	1929
1930	29.4 AT 14:00 CST ON MAY 13	28.9 ON MAY 13	0 B ON APR 1 *	---	1930
1931	4.67 B ON APR 9	4.25 B ON APR 9	---	---	1931
1932	11.5 B ON APR 14	10.0 B ON APR 13	---	---	1932
1933	16.4 AT 08:00 CST ON APR 20	16.4 ON APR 20	---	---	1933
1934	0.736B AT 13:00 CST ON APR 7	0.680 ON JUN 24	0 ON AUG 8	---	1934
1935	---	---	---	---	1935
1936	17.3 AT 23:00 CST ON APR 20	16.9 ON APR 21	---	---	1936
1937	44.2 AT 03:00 CST ON JUL 17	41.9 ON JUL 17	---	---	1937
1938	---	---	---	---	1938
1939	0.850 AT 08:30 CST ON JUN 4	0.793 ON JUN 4	0 ON JUL 30	---	1939
1940	2.04 B ON APR 30	1.84 B ON APR 16	---	---	1940
1941	53.2 AT 10:30 CST ON SEP 26	52.4 ON SEP 26	0.003B ON DEC 31	84 200	1941
1942	58.6 AT 19:00 CST ON SEP 1	55.5 ON SEP 1	0 B ON JAN 1	79 700	1942
1943	---	22.8 ON APR 10	0.040B ON DEC 22	71 900	1943
1944	30.6 AT 19:00 CST ON JUN 6	30.0 ON JUN 7	0.011B ON FEB 9	79 900	1944
1945	30.0 AT 20:00 CST ON MAR 28	27.4 ON MAR 28	0.057B ON FEB 6	86 400	1945
1946	8.52 B ON MAR 23	8.50 B ON MAR 23	0.014 ON AUG 26	31 500	1946
1947	41.6 AT 09:00 CST ON JUN 12	39.4 ON JUN 12	0 B ON FEB 23	48 400	1947
1948	28.6 AT 01:00 CST ON APR 21	27.1 ON APR 21	0.048 ON OCT 5	53 900	1948
1949	11.8 AT 01:00 CST ON APR 15	11.4 ON APR 15	0.023 ON SEP 9	28 800	1949
1950	41.6 R ON MAY 12	36.8 E ON MAY 11	0.040B ON FEB 26	114 000	1950
1951	---	11.0 ON MAY 2	0.014B ON DEC 29	37 400	1951
1952	1.95 AT 07:00 CST ON JUL 4	1.93 ON JUL 4	0.014B ON JAN 1	6 970	1952
1953	6.65 AT 23:00 CST ON JUN 3	6.20 ON JUN 4	0.023B ON JAN 17	19 200	1953
1954	14.6 AT 20:00 CST ON APR 30	14.4 ON MAY 1	0.031 ON AUG 6	39 900	1954
1955	15.8 AT 10:30 CST ON JUN 6	15.4 ON JUN 6	0.011 ON SEP 6	47 200	1955
1956	24.4 R AT 22:00 CST ON JUL 5	21.8 ON JUL 6	0.042B ON JAN 27	83 800	1956
1957	11.9 AT 23:00 CST ON JUN 15	11.6 ON JUN 16	0.023B ON JAN 17	59 000	1957
1958	4.67 AT 07:00 CST ON JUL 10	4.64 ON JUL 9	0.028B ON JAN 24	15 700	1958
1959	16.8 AT 19:00 CST ON MAY 7	16.5 ON MAY 7	0.031B ON MAR 11	55 700	1959
1960	20.0 AT 17:00 CST ON APR 15	19.7 ON APR 16	0.040 ON SEP 23	37 200	1960
1961	3.26 B AT 20:10 CST ON MAR 24	2.83 B ON MAR 26	0 ON AUG 8	9 390	1961
1962	24.4 AT 03:00 CST ON MAY 25	23.9 ON MAY 25	0 B ON JAN 30	65 600	1962
1963	20.0 AT 13:00 CST ON APR 10	19.5 ON APR 10	0.003B ON JAN 31	47 800	1963
1964	13.2 AT 00:00 CST ON JUN 20	12.6 ON JUN 20	0.003B ON FEB 25	48 700	1964
1965	35.4 AT 12:00 CST ON MAY 7	34.0 ON APR 1[illegible]	0.028B ON FEB 2	112 000	1965
1966	26.4 AT 02:30 CST ON APR 18	26.1 ON APR 16	0.045B ON DEC 31	97 200	1966
1967	31.1 AT 23:00 CST ON APR 22	30.0 ON APR 22	0.003B ON FEB 12	49 500	1967
1968	24.4 AT 15:00 CST ON JUN 11	23.8 ON JUN 11	0.017B ON JAN 18	65 100	1968
1969	24.6 AT 02:30 CST ON APR 13	24.3 ON APR 13	0.028B ON FEB 6	63 900	1969
1970	33.4 AT 10:00 CST ON APR 28	32.6 ON APR 28	0.037 ON SEP 6	86 500	1970
1971	9.74 ON APR 19	8.78 ON APR 20	0.040B ON FEB 16	36 100	1971
1972	13.5 AT 05:00 CST ON APR 23	13.4 ON APR 22	0.023B ON FEB 10	33 900	1972
1973	10.5 AT 03:00 CST ON SEP 26	10.4 ON SEP 26	0.014B ON JAN 9	35 400	1973
1974	72.5 ON APR 22 *	70.2 ON APR 22 *	0.016 ON JUL 29	99 100	1974
1975	13.9 AT 10:30 CST ON APR 29	13.7 ON APR 29	0.048B ON MAR 11	43 800	1975
1976	5.38 AT 05:00 CST ON JUN 29	5.24 ON JUN 29	0 B ON DEC 8	20 700	1976
1977	2.83 AT 14:30 CST ON SEP 27	2.75 ON SEP 27	0.003B ON FEB 16	9 820	1977
1978	18.5 AT 23:00 CST ON APR 19	17.9 ON APR 19	0.037B ON MAR 9	39 500	1978
1979	27.3 AT 18:30 CST ON APR 20	26.5 ON APR 22	0.020 ON SEP 21	51 200	1979
1980	5.24 AT 03:00 CST ON APR 7	4.81 B ON APR 7	0 ON JUL 10	5 030	1980
1981	8.83 AT 17:30 CST ON JUN 15	7.73 ON JUN 16	0.022B ON JAN 28	34 200	1981
				52 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

STEEPROCK RIVER NEAR MAFEKING - STATION NO. 05LF001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.33	7.59	12.8	3.86	3.30	3.65	3.16	2.83	---	---	1954
1955	---	---	1.19	4.53	10.2	2.37	1.59	0.416	0.391	0.887	---	---	2.70	1955
1956	---	---	0.512	0.793	8.69	4.21	3.39	0.953	0.797	0.770	---	---	2.52	1956
1957	---	---	0.066	2.05	7.91	2.65	0.807	0.575	1.57	0.561	---	---	2.02	1957
1958	---	---	0.483	2.42	2.77	1.70	11.7	0.953	1.89	1.66	---	---	2.96	1958
1959	---	---	---	1.47	4.07	7.70	2.90	0.979	8.48	3.34	---	---	---	1959
1960	---	---	0.974	2.10	5.53	4.29	1.41	1.09	1.04	1.26	---	---	2.21	1960
1961	---	---	0.500	1.02	2.35	0.795	0.237	0.254	0.256	0.263	---	---	0.710	1961
1962	---	---	0.062	1.04	4.31	0.825	0.189	0.173	1.06	0.516	---	---	1.02	1962
1963	---	---	0.274	2.32	3.70	5.26	1.88	0.755	0.902	0.577	---	---	1.95	1963
1964	---	---	---	1.84	7.74	2.23	1.90	4.01	3.50	2.27	---	---	---	1964
1965	---	---	0.379	1.18	11.5	5.05	1.75	1.09	4.98	3.02	---	---	3.62	1965
1967	---	---	0.744	1.38	10.7	4.39	2.08	1.68	0.673	0.959	---	---	2.84	1967
1968	---	---	0.315	1.08	5.00	5.87	9.44	8.73	2.88	2.97	---	---	4.55	1968
1969	---	---	0.756	2.66	2.15	1.85	1.73	1.44	1.93	5.02	---	---	2.19	1969
1970	---	---	0.496	1.07	7.39	4.25	5.02	1.42	1.40	3.78	---	---	3.11	1970
1971	---	---	0.776	2 96	5.07	4.09	3.17	1.70	2.19	3.13	---	---	2.88	1971
1972	---	---	0.735	2.33	8.81	2.82	2.88	1.17	0.664	0.828	---	---	2.54	1972
1973	---	---	0.537	0.860	4.02	11.5	3.71	1.67	1.64	1.61	---	---	3.17	1973
1974	---	---	0.323	2.52	11.0	4.38	2.79	1.46	3.39	2.28	---	---	3.52	1974
1975	---	---	0.680	1.51	6.18	5.38	2.48	4.61	4.80	3.50	---	---	3.64	1975
1976	---	---	0.677	2.28	1.68	8.26	2.08	0.897	0.586	0.650	---	---	2.12	1976
1977	---	---	0.550	2.97	2.41	0.802	2.41	5.70	6.78	4.36	---	---	3.24	1977
1978	---	---	0.601	1.76	4.96	1.76	1.07	0.802	1.78	3.42	---	---	2.02	1978
1979	---	---	0.654	1.26	10.1	6.81	2.68	1.79	1.42	1.20	---	---	3.24	1979
1980	---	---	0.630	3.14	1.39	0.806	0.794	3.20	2.62	2.34	---	---	1.86	1980
1981	---	---	0.616	1.26	1.98	2.98	3.79	1.40	1.71	3.29	---	---	2.13	1981
1982	---	---	0.583	1.49	3.69	3.51	5.02	2.15	1.46	1.73	---	---	2.46	1982
MEAN	---	---	0.565	1.88	5.82	4.26	2.96	1.94	2.30	2.12	2.83	---	2.61	MEAN

LOCATION - LAT 52 43 40 N DRAINAGE AREA, 300 km²
LONG 101 06 45 W REGULATED SINCE 1958

STEEPROCK RIVER NEAR MAFEKING - STATION NO. 05LF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	80.7 ON JUN 9	---	---	1954
1955	---	46.4 ON MAY 6	0.085 ON SEP 13	57 200	1955
1956	---	19.2 ON MAY 23	0.227 ON AUG 28	53 400	1956
1957	---	15.2 ON MAY 7	0.057B ON MAR 11	42 800	1957
1958	---	138 ON JUL 6 *	0.368B ON MAR 1	62 600	1958
1959	---	69.9 ON SEP 2	---	---	1959
1960	---	17.6 ON MAY 14	0.725 ON AUG 29	46 700	1960
1961	---	4.50 ON MAY 19	0.184 ON JUL 9	15 000	1961
1962	---	7.42 ON MAY 16	0 B ON MAR 1 *	21 600	1962
1963	---	12.2 ON JUN 12	0.122B ON MAR 10	41 200	1963
1964	---	60.9 ON MAY 7	---	---	1964
1965	---	83.8 B ON MAY 6	0.340B ON MAR 23	76 700	1965
1967	---	36.2 ON MAY 25	0.609 ON SEP 1	60 100	1967
1968	---	74.5 ON JUL 21	0.133B ON MAR 1	96 300	1968
1969	---	19.1 ON OCT 3	0.742 ON AUG 15	46 400	1969
1970	---	15.5 ON OCT 26	0.496B ON MAR 1	65 900	1970
1971	---	23.4 ON JUN 6	0.714 ON SEP 11	61 000	1971
1972	---	15.7 ON MAY 13	0.566 ON SEP 11	53 700	1972
1973	94.3 AT 22:44 CST ON JUN 19 *	58.6 ON JUN 19	0.476B ON MAR 1	67 200	1973
1974	52.1 AT 01:00 CST ON MAY 22	39.6 ON MAY 22	0.266B ON MAR 1	74 600	1974
1975	---	23.7 A ON SEP 19	0.572B ON APR 6	77 200	1975
1976	89.5 AT 00:35 CST ON JUN 14	56.9 ON JUN 13	0.456 ON OCT 1	44 900	1976
1977	32.6 AT 16:35 CST ON AUG 10	20.6 ON AUG 10	0.360 ON JUN 28	68 800	1977
1978	13.8 AT 20:50 CST ON MAY 3	12.1 ON MAY 3	0.521 ON AUG 31	42 800	1978
1979	49.5 AT 12:04 CST ON MAY 27	38.4 ON MAY 27	0.619B ON MAR 1	68 600	1979
1980	20.7 AT 04:36 CST ON AUG 5	11.6 ON APR 22	0.381 ON AUG 2	39 400	1980
1981	35.8 AT 10:58 CST ON JUL 16	23.3 ON JUL 16	0.428B ON MAR 1	45 200	1981
1982	67.3 AT 18:52 CST ON JUL 17	30.3 ON JUL 18	0.510B ON APR 1	52 000	1982
				55 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STONY CREEK NEAR BEDE - STATION NO. 05NG004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.025	---	---	---	---	---	---	---	---	1936
1965	---	---	0	1.35	0.086	0.067	0.005	0.104	0.157	0.204	---	---	0.243	1965
1966	---	---	0.239	1.28	0.527	0.012	0.036	0	0	0	---	---	0.259	1966
1967	---	---	0	0.114	0.233	0	0	0	0	0	---	---	0.044	1967
1968	---	---	0.142	0.011	0	0	0	0	0	0	---	---	0.019	1968
1969	---	---	0	3.14	0.367	0	1.29	0.060	0	0	---	---	0.602	1969
1970	---	---	0	2.91	3.36	0.080	0	0	0	0	---	---	0.792	1970
1971	---	---	0	0.210	0.047	1.32	0.321	0	0	0	---	---	0.234	1971
1972	---	---	1.22	1.19	0.162	0.076	0	0	0	0	---	---	0.330	1972
MEAN	---	---	0.200	1.28	0.534	0.194	0.207	0.021	0.020	0.026	---	---	0.315	MEAN

LOCATION - LAT 49 27 19 N DRAINAGE AREA, 658 km²
LONG 100 57 44 W NATURAL FLOW

STONY CREEK NEAR BEDE - STATION NO. 05NG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1965	---	5.27 ON APR 14	0B ON MAR 1 *	5 150	1965
1966	---	4.67 ON APR 3	0B ON MAR 1	5 490	1966
1967	---	0.968 ON MAY 4	0B ON MAR 1	922	1967
1968	---	0.991B ON MAR 24	0B ON MAR 1	408	1968
1969	---	19.9 ON APR 16 *	0B ON MAR 1	12 700	1969
1970	---	9.85 ON MAY 2	0B ON MAR 1	16 800	1970
1971	---	5.66 ON JUN 10	0B ON MAR 1	4 950	1971
1972	---	4.56 B ON MAR 23	0B ON MAR 1	6 980	1972
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 680	MEAN

STONY CREEK NEAR BROOMHILL - STATION NO. 05NG019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	1.12	0.059	0.082	0.105	0.078	0.147	0.172	---	---	0.218	1965
1966	---	---	0.237	0.968	0.417	0.012	0.032	0	0	0	---	---	0.207	1966
1967	---	---	0	0.183	0.214	0	0	0	0	0	---	---	0.049	1967
1968	---	---	0.092	0.012	0	0	0	0	0	0	---	---	0.013	1968
1969	---	---	0	2.32	0.370	0.001	0.729	0.015	0	0	---	---	0.426	1969
1970	---	---	0	2.99	1.86	0.099	0.021	0	0	0	---	---	0.616	1970
1971	---	---	0	0.141	0.031	0.201	0.075	0	0	0	---	---	0.055	1971
1972	---	---	0.836	0.953	0.103	0.030	0	0	0	0	---	---	0.239	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	4.90	0.734	0.177	0.018	0	0	0	---	---	0.717	1974
1975	---	---	0	4.51	1.33	0.415	0.042	0.005	0.455	0.431	---	---	0.887	1975
1976	---	---	0	14.5	0.479	0.291	0.043	0	0	0	---	---	1.88	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0	0	0	0	0	0	0	---	---	0	1978
1979	---	---	0	0.954	0.466	0.027	0	0	0	0	---	---	0.179	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	0.011	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.525	0	0	0	0	0	0	---	---	0.064	1982
MEAN	---	0.011	0.065	1.89	0.337	0.074	0.059	0.005	0.033	0.034	---	---	0.308	MEAN

LOCATION - LAT 49 23 52 N DRAINAGE AREA, 474 km^2
LONG 101 05 54 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.050 AND 0 m^3/s OCCURRED IN FEBRUARY

STONY CREEK NEAR BROOMHILL - STATION NO. 05NG019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	5.27 ON APR 13	0B ON MAR 1 *	4 610	1965
1966	---	4.22 ON APR 3	0B ON MAR 1	4 380	1966
1967	---	0.906 ON MAY 2	0B ON MAR 1	1 050	1967
1968	---	0.906B ON MAR 24	0B ON MAR 1	279	1968
1969	---	17.0 ON APR 16	0B ON MAR 1	9 020	1969
1970	---	14.6 ON APR 30	0B ON MAR 1	13 100	1970
1971	---	1.58 ON JUN 14	0B ON MAR 1	1 170	1971
1972	---	3.11 B ON MAR 21	0B ON MAR 1	5 060	1972
1973	---	0.003B ON MAR 13	0B ON MAR 1	1.04	1973
1974	---	20.7 ON APR 18	0B ON MAR 1	15 200	1974
1975	---	16.8 ON APR 29	0B ON MAR 1	18 800	1975
1976	---	54.7 B ON APR 10 *	0B ON MAR 1	39 900	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0 B ON MAR 1	0B ON MAR 1	0	1978
1979	---	6.71 ON APR 25	0B ON MAR 1	3 790	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0.002B ON MAR 1	0B ON MAR 3	0.26	1981
1982	3.43 AT 05:43 CST ON APR 15 *	3.13 ON APR 15	0B ON MAR 1	1 360	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 540	MEAN

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.646	3.38	---	---	---	---	---	---	---	---	---	1961
1962	---	---	0	1.09	0.680	0.337	0.414	6.79	1.78	0.291	0.310	---	1.43	1962
1963	---	---	1.59	11.2	1.43	4.36	0.219	0.461	0.062	0.021	---	---	2.38	1963
1964	---	---	0	3.48	0.181	0.177	0.093	0.036	0.029	0.033	---	---	0.495	1964
1965	---	---	0	5.82	0.409	0.116	0.110	0.036	0.063	0.041	---	---	0.810	1965
1966	---	---	0.139	9.05	2.42	0.078	0.475	0.082	0.049	0.041	---	---	1.52	1966
1967	---	---	0.018	7.58	0.666	0.032	0.065	0.068	0.038	0.031	---	---	1.04	1967
1968	---	---	0.975	2.13	0.062	0.038	0.161	2.99	0.803	0.388	---	---	0.943	1968
1969	---	---	0.001	12.5	2.53	2.31	1.92	0.833	0.107	0.103	---	---	2.51	1969
1970	---	---	0.032	17.8	6.77	1.27	0.939	0.047	0.046	0.064	---	---	3.33	1970
1971	---	---	0	10.2	0.299	0.237	0.143	0.027	0.012	0.039	---	---	1.35	1971
1972	---	---	0.073	11.1	0.164	0.042	0.068	0.250	0.039	0.026	---	---	1.44	1972
1973	---	---	1.83	0.223	0.062	0.080	0.054	0.022	0.177	0.051	---	---	0.315	1973
1974	---	---	0.037	22.5	10.1	0.184	0.042	0.102	0.034	0.035	---	---	4.08	1974
1975	---	---	0.031	3.01	0.305	0.092	0.057	0.037	0.049	0.052	---	---	0.447	1975
1976	---	---	0.099	9.84	0.039	0.167	0.088	0.049	0.025	0.026	---	---	1.27	1976
1977	---	---	0.074	0.773	1.07	0.140	0.153	0.077	0.080	0.058	---	---	0.302	1977
1978	---	---	0.160	13.0	1.38	0.256	0.054	0.101	0.114	0.093	---	---	1.87	1978
1979	---	---	0	22.0	7.72	0.747	0.324	0.266	0.297	0.172	---	---	3.89	1979
1980	---	---	0.027	2.65	0.039	0.076	0.045	0.097	0.166	0.054	---	---	0.388	1980
1981	---	---	1.38	0.434	0.010	0.014	0.016	0.018	0.006	0.021	---	---	0.239	1981
1982	---	---	0.311	3.38	0.201	0.023	0.118	0.030	0.019	0.104	---	---	0.515	1982
MEAN	---	---	0.337	7.87	1.74	0.513	0.265	0.591	0.190	0.083	0.310	---	1.46	MEAN

LOCATION - LAT 49 52 52 N DRAINAGE AREA, 572 km²
LONG 97 16 43 W NATURAL FLOW

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	0 B ON MAR 1 *	---	1961
1962	---	18.3 E ON AUG 24	0 B ON MAR 1	30 200	1962
1963	---	19.3 ON JUN 4	0 B ON MAR 1	50 300	1963
1964	---	11.2 B ON APR 16	0 B ON MAR 1	10 500	1964
1965	---	12.7 B ON APR 14	0 B ON MAR 1	17 200	1965
1966	---	32.3 B ON APR 13	0 B ON MAR 1	32 300	1966
1967	---	23.5 B ON APR 20	0 B ON MAR 1	22 200	1967
1968	---	15.8 ON AUG 24	0 ON MAR 1	20 000	1968
1969	---	35.1 ON APR 10	0 B ON MAR 1	53 200	1969
1970	---	50.4 ON APR 25	0 B ON MAR 1	70 400	1970
1971	---	42.5 ON APR 11	0 B ON MAR 1	28 500	1971
1972	---	41.9 ON APR 17	0.003 ON JUN 9	30 500	1972
1973	---	7.14 ON MAR 26	0 B ON MAR 1	6 660	1973
1974	---	82.7 ON APR 21 *	0.018 ON SEP 20	86 400	1974
1975	---	10.3 ON APR 17	0 E ON JUN 21	9 470	1975
1976	---	37.7 ON APR 9	0.003 ON AUG 26	26 800	1976
1977	---	12.8 ON MAY 5	0.014B ON MAR 25	6 390	1977
1978	---	39.9 ON APR 14	0.003B ON MAR 1	39 600	1978
1979	---	63.2 A ON APR 24	0 B ON MAR 1	82 400	1979
1980	---	10.4 B ON APR 10	0 B ON MAR 1	8 210	1980
1981	---	3.00B ON MAR 17	0 ON APR 10	5 060	1981
1982	---	15.6 B ON APR 13	0 B ON MAR 1	10 900	1982
MEAN				30 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.014	9.80	0.969	0.173	0.048	0.001	0	0	---	---	1.35	1978
1979	---	---	0	16.6	6.50	0.507	0.165	0	0	0	---	---	2.94	1979
1980	---	---	0	2.16	0.033	0	0.005	0.028	0.097	0.036	---	---	0.289	1980
1981	---	---	1.12	0.218	0.045	0.039	0.047	0.021	0.029	0.049	---	---	0.197	1981
1982	---	---	0.710	3.09	0.089	0.008	0.051	0.018	0.034	0.105	---	---	0.506	1982
MEAN	---	---	0.369	6.37	1.53	0.145	0.063	0.014	0.032	0.038	---	---	1.06	MEAN

LOCATION - LAT 49 55 20 N DRAINAGE AREA, 541 km²
LONG 97 20 40 W NATURAL FLOW

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	34.0 B AT 10:57 CST ON APR 14	30.6 B ON APR 14	0B ON MAR 1 *	28 600	1978
1979	53.3 B AT 03:54 CST ON APR 23 *	52.7 B ON APR 23 *	0B ON MAR 1	62 300	1979
1980	---	7.56B ON APR 11	0B ON MAR 1	6 120	1980
1981	3.26 AT 14:57 CST ON MAR 27	3.13 ON MAR 29	0 ON MAY 18	4 160	1981
1982	---	10.2 B ON APR 13	0B ON MAR 1	10 700	1982
MEAN				22 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SWAN RIVER AT SWAN RIVER - STATION NO. 05LE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	11.3	2.83	---	1912
1913	1.98	1.42	1.42	63.8	29.6	13.6	51.8	15.3	7.10	4.78	2.83	1.82	16.3	1913
1914	1.13	1.13	0.850	34.1	44.5	6.49	1.44	0.634	0.921	1.40	1.13	0.566	7.88	1914
1915	0	0	0.396	11.3	2.30	2.71	5.72	2.11	1.12	1.70	1.14	0.283	2.40	1915
1916	0.491	0.356	0.398	14.7	14.7	48.4	16.0	3.68	2.48	3.67	2.13	0.510	8.92	1916
1917	0.164	0.094	0.116	15.7	41.1	11.4	18.2	2.45	1.88	1.36	1.63	0.954	7.99	1917
1918	0.368	0.122	5.65	12.9	8.19	23.3	28.5	6.86	3.51	3.35	2.08	0.666	7.99	1918
1919	0.361	0.291	0.252	20.1	12.0	4.18	4.67	2.91	5.23	6.99	2.21	0.313	4.96	1919
1920	---	---	---	53.0	66.0	15.9	4.59	1.53	1.34	2.82	---	---	---	1920
1921	---	---	---	45.2	27.2	21.8	11.3	16.1	13.8	14.9	9.91	2.83	---	1921
1922	1.42	0.850	0.708	74.2	102	14.2	5.86	8.20	5.34	4.74	4.87	0.991	18.7	1922
1923	0.566	0.425	1.42	61.2	54.5	46.7	29.8	8.30	2.90	3.12	1.31	1.08	17.6	1923
1924	0.903	0.691	0.607	14.3	12.8	5.87	2.43	10.1	2.25	2.87	1.46	0.844	4.60	1924
1925	0.448	0.137	0.827	82.4	14.7	31.0	19.3	3.99	3.60	2.95	1.73	0.780	13.4	1925
1926	0.369	0.190	0.618	48.4	10.8	10.9	2.56	0.491	0.800	3.25	3.59	0.897	6.86	1926
1927	0.560	0.303	0.602	47.8	57.3	33.9	17.5	7.07	12.0	9.36	4.89	1.65	16.1	1927
1928	0.727	0.324	6.65	9.85	11.8	5.28	12.8	2.81	1.60	1.37	0.708	0.227	4.54	1928
1929	0.017	0.006	0.227	7.09	6.19	3.58	3.15	0.668	0.593	0.645	---	---	---	1929
1930	---	---	---	---	8.03	9.35	8.62	1.17	1.35	1.12	---	---	---	1930
1931	---	---	---	---	2.75	1.25	1.34	0.564	1.52	3.00	---	---	---	1931
1932	---	---	---	19.9	5.12	2.76	6.45	1.28	1.19	1.37	---	---	---	1932
1933	---	---	---	23.1	17.5	19.5	11.0	1.68	2.28	2.64	---	---	---	1933
1934	---	---	---	---	39.7	11.2	6.42	1.33	1.07	1.51	---	---	---	1934
1935	---	---	---	---	8.79	23.1	9.66	1.58	1.06	1.71	---	---	---	1935
1936	---	---	---	---	22.0	10.9	4.96	0.745	0.453	---	---	---	---	1936
1950	---	---	---	---	---	---	---	8.14	1.82	1.83	2.76	0.974	---	1950
1951	0.635	0.585	0.636	23.1	43.9	13.6	7.33	5.21	15.8	17.6	9.28	2.18	11.7	1951
1952	0.932	0.661	0.744	44.7	19.0	8.52	5.74	3.53	2.59	1.92	1.46	0.640	7.50	1952
1953	0.817	0.554	0.599	31.6	21.3	25.1	48.2	18.2	18.6	5.90	5.41	2.14	14.9	1953
1954	1.15	1.13	1.06	23.4	51.0	76.4	18.0	3.53	10.2	7.13	4.61	2.16	16.6	1954
1955	0.723	0.926	0.968	49.1	51.8	8.75	4.01	0.776	0.480	1.15	1.06	0.696	10.1	1955
1956	0.595	0.566	0.685	15.4	65.4	15.2	14.6	3.89	2.77	1.40	1.36	0.919	10.3	1956
1957	0.504	0.368	0.345	50.5	37.4	7.61	3.56	1.22	1.49	1.47	1.20	0.626	8.85	1957
1958	0.491	0.314	0.760	6.96	2.63	2.01	3.12	0.623	0.217	1.65	0.948	0.431	1.68	1958
1959	0.133	0	0.456	9.99	6.55	3.76	4.99	0.815	3.60	5.62	3.69	1.24	3.41	1959
1960	0.683	0.551	0.515	44.8	20.6	12.8	2.76	1.25	0.358	---	---	---	---	1960
MEAN	0.647	0.480	1.10	33.1	27.6	16.2	11.7	4.25	3.81	3.83	3.25	1.11	9.71	MEAN

LOCATION - LAT 52 05 45 N DRAINAGE AREA, 4 070 km²
LONG 101 15 30 W NATURAL FLOW

SWAN RIVER AT SWAN RIVER - STATION NO. 05LE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	139 ON APR 16	1.42 B ON FEB 1	514 000	1913
1914	---	113 ON MAY 7	0.311 ON AUG 19	248 000	1914
1915	---	32.3 ON APR 14	0 B ON JAN 1 *	75 700	1915
1916	---	77.3 ON JUN 11	0.311B ON FEB 24	282 000	1916
1917	---	64.6 ON MAY 7	0.028B ON MAR 1	252 000	1917
1918	---	66.0 ON JUL 4	0.028B ON FEB 17	252 000	1918
1919	---	56.1 ON APR 14	0.057B ON DEC 22	156 000	1919
1920	---	157 ON APR 25	---	---	1920
1921	---	83.0 ON APR 21	---	---	1921
1922	---	240 ON APR 25 *	0.708B ON MAR 1	588 000	1922
1923	---	263 ON APR 23	0.425B ON FEB 1	557 000	1923
1924	---	28.9 ON MAY 1	0.538B ON MAR 14	146 000	1924
1925	---	225 ON APR 8	0.057B ON FEB 26	423 000	1925
1926	---	126 B ON APR 19	0.071B ON MAR 3	216 000	1926
1927	---	123 B ON APR 21	0.184B ON FEB 19	508 000	1927
1928	---	43.0 ON JUL 6	0.170B ON MAR 2	144 000	1928
1929	---	14.8 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	41.1 ON APR 12	---	---	1932
1933	---	---	---	---	1933
1934	---	55.2 ON MAY 6	---	---	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1950	---	---	---	---	1950
1951	---	89.5 ON MAY 2	0.510B ON JAN 25	368 000	1951
1952	---	77.6 ON APR 9	0.481B ON DEC 24	237 000	1952
1953	---	77.6 ON JUL 3	0.538B ON FEB 8	471 000	1953
1954	---	116 ON JUN 20	0.991B ON JAN 15	525 000	1954
1955	---	104 ON APR 9	0.368 ON SEP 10	317 000	1955
1956	---	115 ON MAY 6	0.566B ON FEB 1	326 000	1956
1957	---	192 ON APR 23	0.340B ON MAR 7	279 000	1957
1958	---	11.7B ON APR 3	0.057 ON SEP 10	53 000	1958
1959	---	28.3B ON APR 10	0 B ON JAN 19	108 000	1959
1960	---	84.1 ON APR 21	---	---	1960
MEAN				306 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SWAN RIVER NEAR MINITONAS - STATION NO. 05LE006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	0.505	0.575	0.366	---	1960
1961	0.252	0.153	0.114	0.863	1.53	0.715	0.087	0.133	0.010	0.065	0.271	0.235	0.369	1961
1962	0.068	0	0.015	4.51	8.72	1.48	0.402	0.182	1.29	0.901	0.849	0.381	1.57	1962
1963	0.089	0.008	0.142	22.6	2.37	2.46	2.51	1.13	0.547	0.541	0.621	0.389	2.77	1963
1964	0.331	0.435	0.545	10.2	11.8	1.09	1.20	1.51	4.96	5.04	2.41	1.16	3.39	1964
1965	0.804	0.639	0.557	15.6	14.9	35.0	5.65	2.78	3.40	5.09	1.92	1.11	7.27	1965
1966	0.840	0.733	0.708	48.3	19.2	15.5	16.5	5.26	4.45	1.45	1.53	1.19	9.63	1966
1967	0.983	0.819	0.759	7.90	46.1	8.79	0.961	0.790	0.192	0.754	0.152	0.260	5.76	1967
1968	0.184	0.232	2.62	7.40	1.73	3.20	3.51	7.55	5.19	1.89	1.19	0.537	2.94	1968
1969	0.471	0.568	0.684	22.0	4.63	2.27	2.82	1.00	0.794	4.92	1.70	0.783	3.54	1969
1970	0.413	0.434	0.543	20.2	25.9	10.1	13.4	4.07	1.18	3.65	13.2	2.83	8.02	1970
1971	1.18	0.947	0.842	67.2	15.4	5.50	1.63	1.78	0.328	2.64	2.81	1.65	8.44	1971
1972	0.992	0.727	0.861	50.8	58.1	5.00	3.52	0.998	0.343	0.742	0.236	0.007	10.2	1972
1973	0.002	0	1.18	6.94	5.71	14.5	10.4	1.64	0.801	1.29	1.07	0.868	3.71	1973
1974	0.672	0.699	0.825	50.8	54.5	18.6	2.21	1.17	2.40	3.49	2.07	1.16	11.6	1974
1975	0.839	0.689	0.757	34.6	28.6	15.9	4.10	1.28	4.57	7.11	3.75	1.11	8.61	1975
1976	0.770	0.723	0.751	55.3	7.03	33.0	17.8	1.77	0.813	0.907	0.520	0.238	9.89	1976
1977	0.355	0.401	0.468	14.1	4.85	2.09	1.77	3.06	6.77	6.41	3.14	1.65	3.75	1977
1978	1.10	0.712	0.708	27.2	16.4	2.70	2.44	0.816	1.86	3.95	2.11	1.22	5.10	1978
1979	0.870	0.698	0.589	46.6	52.4	25.0	2.92	0.540	0.545	0.773	0.996	0.647	11.1	1979
1980	0.418	0.498	0.607	17.9	2.31	0.686	1.81	2.32	2.88	4.51	2.14	1.10	3.08	1980
1981	0.557	0.310	0.926	10.1	5.98	2.90	2.44	1.41	0.027	6.71	4.31	1.07	3.07	1981
1982	0.134	0.123	0.303	5.21	5.00	2.93	7.98	3.26	1.03	2.46	1.04	0.964	2.56	1982
MEAN	0.560	0.479	0.705	24.8	17.9	9.52	4.82	2.02	2.02	2.86	2.11	0.910	5.74	MEAN

LOCATION - LAT 52 11 47 N   DRAINAGE AREA, 4 220 km²
LONG 101 03 37 W   NATURAL FLOW

SWAN RIVER NEAR MINITONAS - STATION NO. 05LE006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	3.00 ON APR 24	0 ON AUG 25 *	11 700	1961
1962	---	15.9 A ON MAY 3	0 B ON JAN 28	49 700	1962
1963	---	67.1 B ON APR 10	0 B ON FEB 13	87 200	1963
1964	---	22.7 B ON APR 14	0.311B ON JAN 7	107 000	1964
1965	---	81.6 ON JUN 10	0.555B ON MAR 4	229 000	1965
1966	---	127 B ON APR 17	0.699B ON MAR 8	303 000	1966
1967	---	97.4 B ON MAY 8	0.006 ON SEP 12	182 000	1967
1968	---	25.9 B ON MAR 30	0.161B ON JAN 13	92 800	1968
1969	---	75.6 B ON APR 15	0.201 ON SEP 3	112 000	1969
1970	54.9 AT 05:00 CST ON MAY 4	53.8 ON MAY 4	0.340B ON JAN 19	253 000	1970
1971	163 AT 00:00 CST ON APR 18	158 ON APR 18	0.127 ON SEP 19	266 000	1971
1972	170 AT 15:20 CST ON APR 22 *	166 ON APR 22	0.003B ON DEC 26	323 000	1972
1973	24.2 AT 09:56 CST ON JUL 8	24.1 ON JUL 8	0 B ON JAN 25	117 000	1973
1974	---	217 ON APR 21 *	0.578 ON AUG 11	365 000	1974
1975	120 AT 18:40 CST ON APR 25	117 ON APR 26	0.462 ON AUG 19	272 000	1975
1976	---	159 B ON APR 10	0.181B ON DEC 1	312 000	1976
1977	---	45.3 B ON APR 14	0.309B ON JAN 1	119 000	1977
1978	96.6 AT 01:08 CST ON APR 19	85.8 ON APR 19	0.467 ON AUG 23	161 000	1978
1979	---	198 A ON APR 25	0.357 ON SEP 8	349 000	1979
1980	61.4 AT 16:30 CST ON APR 17	58.5 ON APR 17	0.392B ON JAN 1	97 400	1980
1981	---	16.8 E ON OCT 18	0.010 ON OCT 9	96 900	1981
1982	23.9 AT 12:56 CST ON JUL 18	23.4 ON JUL 24	0.065B ON JAN 28	80 600	1982
				181 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)   B - ICE CONDITIONS   E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05TG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	---	---	---	---	---	3.42	6.64	3.06	---	1970
1971	1.27	0.846	0.714	4.86	16.0	6.15	10.9	7.32	5.32	---	---	---	---	1971
1972	2.14	1.42	0.902	2.98	22.8	11.0	5.46	2.47	3.93	5.92	3.11	1.12	5.29	1972
1973	1.09	1.22	0.790	0.571	9.66	4.95	4.65	7.49	5.88	6.00	4.39	2.54	4.13	1973
1974	1.19	0.826	0.881	5.04	19.4	9.68	5.61	3.78	4.28	4.52	3.18	2.32	5.09	1974
1975	1.42	0.742	0.488	2.06	16.4	18.4	10.7	6.82	5.65	10.9	5.30	2.28	6.80	1975
1976	1.07	0.957	0.738	2.21	3.69	10.1	13.1	6.88	3.33	3.28	2.49	1.39	4.12	1976
1977	0.734	0.632	0.603	11.2	10.3	12.6	11.0	4.04	5.32	5.03	5.42	1.91	5.74	1977
1978	0.354	0.233	0.296	1.40	12.4	8.02	7.15	6.52 R	7.01	17.4	9.59	4.45	6.29R	1978
1979	1.61	0.644	0.380	0.485	13.5	22.5	6.29	1.73	1.55	3.13	4.05	2.28	4.86	1979
1980	0.729	0.531	0.510	4.36	2.68	1.86	2.40	5.62	18.6	15.2	4.70	2.20	4.95	1980
1981	1.36	0.997	0.798	0.721	13.5	3.96	0.775	0.177	0.047	3.67	2.07	1.06	2.44	1981
1982	0.673	0.505	0.431	1.90	23.7	11.2	2.47	3.23	3.45	4.11	3.08	1.90	4.75	1982
MEAN	1.14	0.796	0.628	3.15	13.7	10.0	6.71	4.67 R	5.36	6.88	4.50	2.21	4.95	MEAN

LOCATION - LAT 55 29 20 N   DRAINAGE AREA, 883 km²
LONG 98 11 10 W   NATURAL FLOW

R - REVISED SINCE JAN 1980

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05TG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	---	---	---	1970
1971	23.7 AT 10:51 CST ON JUL 4	23.0 ON MAY 18	---	---	1971
1972	32.8 AT 00:12 CST ON MAY 1	32.3 ON MAY 1	0.648 ON APR 16	167 000	1972
1973	18.2 AT 22:47 CST ON MAY 7	13.1 ON MAY 10	0.510B ON APR 28	130 000	1973
1974	26.3 AT 00:23 CST ON APR 30	22.7 ON MAY 13	0.719B ON APR 15	160 000	1974
1975	28.6 AT 23:00 CST ON MAY 26	28.3 ON MAY 26	0.388B ON MAR 26	215 000	1975
1976	19.9 AT 10:00 CST ON JUN 17	19.7 ON JUN 17	0.623B ON MAR 23	130 000	1976
1977	---	21.5E ON APR 17	0.578B ON MAR 27	181 000	1977
1978	---	20.5 ON OCT 5	0.227B ON FEB 6	198 000R	1978
1979	39.4 AT 20:30 CST ON JUN 2 *	33.7 ON JUN 2	0.294B ON APR 9	153 000	1979
1980	28.2 AT 12:15 CST ON SEP 22	28.0 ON SEP 22	0.406 ON AUG 16	157 000	1980
1981	---	21.4B ON MAY 13	0.030 ON SEP 28 *	77 100	1981
1982	36.1 AT 18:25 CST ON MAY 5	35.9 ON MAY 5 *	0.382B ON APR 19	150 000	1982
				156 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

TOBACCO CREEK NEAR ROLAND - STATION NO. 05OF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1919	---	---	---	0.362	0.007	0.068	0.013	0	---	---	---	---	---	1919
1920	---	---	---	---	0.118	0.004	0	---	---	---	---	---	---	1920
1921	---	---	---	0.655	0.053	0.011	---	---	---	---	---	---	---	1921
1922	---	---	---	1.40	1.25	0.090	0.036	0.026	---	---	---	---	---	1922
1923	---	---	---	---	0.477	0.156	0.009	0	0	---	---	---	---	1923
1924	---	---	---	---	0.063	0	0	0	---	---	---	---	---	1924
1925	---	---	---	0.946	0.075	0.735	---	---	---	---	---	---	---	1925
1926	---	---	0.078	0.210	0.015	---	0.034	0	0.015	---	---	---	---	1926
1927	---	---	---	3.29	4.38	1.92	0.215	0	0.070	---	---	---	---	1927
1928	---	---	---	0.217	0.116	1.38	2.14	0.024	---	---	---	---	---	1928
MEAN	---	---	0.078	1.01	0.655	0.485	0.306	0.007	0.028	---	---	---	---	MEAN

LOCATION - LAT 49 24 10 N DRAINAGE AREA, 298 km^2
LONG 97 55 50 W NATURAL FLOW

TOBACCO CREEK NEAR ROLAND - STATION NO. 05OF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1919	---	1.84 ON APR 8	0 ON APR 25 *	---	1919
1920	---	5.15B ON APR 15	0 ON MAY 23	---	1920
1921	---	11.0 ON JUL 5	0 ON MAY 17	---	1921
1922	---	11.2 ON MAY 13	0 ON JUL 6	---	1922
1923	---	20.2 B ON APR 18	0 ON JUL 15	---	1923
1924	---	2.83 ON APR 29	0B ON APR 16	---	1924
1925	---	---	0 ON MAY 21	---	1925
1926	---	2.75 ON JUN 24	0E ON MAR 1	---	1926
1927	---	24.1 ON MAY 11 *	0 ON AUG 1	---	1927
1928	---	12.5 ON JUL 8	0 ON AUG 9	---	1928
				---	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.217	0.032	0.009	0	---	---	---	---	---	---	1964
1965	---	---	0	1.43	0	0.001	0	0	0	0	---	---	0.175	1965
1966	---	---	0.423	0.826	0.394	0	0.123	0	0	0	---	---	0.220	1966
1967	---	---	0.019	1.51	0.275	0.003	0.091	0	0	0	---	---	0.235	1967
1968	---	---	0.149	0.056	0.264	0.026	0.082	1.31	0.191	0.032	---	---	0.265	1968
1969	---	---	0	3.58	0.192	0.248	1.04	0.058	0	0	---	---	0.632	1969
1970	---	---	0	4.35	1.78	0.053	0	0	0	0	---	---	0.765	1970
1971	---	---	0	1.47	0.111	0.171	0.057	0	0.017	0.201	---	---	0.249	1971
1972	---	---	0.749	0.932	0.238	0.010	0	0.004	0	0	---	---	0.241	1972
1973	---	---	0.067	0.030	0.052	0.003	0.011	0.003	0	0.004	---	---	0.021	1973
1974	---	---	0	4.07	2.42	0.160	0.002	0	0	0	---	---	0.824	1974
1975	---	---	0	0.308	0.138	0.255	0.079	0	0	0	---	---	0.096	1975
1976	---	---	0.003	1.31	0.031	0	0	0	0	0	---	---	0.165	1976
1977	---	---	0	0.002	0.010	0	0	0	0.076	0.010	---	---	0.012	1977
1978	---	---	0	0.813	0.447	0.167	0.234	0	0.007	0	---	---	0.207	1978
1979	---	---	0	4.01	1.22	0.199	0.021	0.012	0	0	---	---	0.675	1979
1980	---	---	0	0.226	0.001	0	0	0	0	0	---	---	0.028	1980
1981	---	0.084	0.081	0.026	0.003	0.012	0.004	0.001	0	0	---	---	0.016	1981
1982	---	---	0.017	0.215	0.029	0.021	0	0	0	0.012	---	---	0.036	1982
MEAN	---	0.084	0.079	1.34	0.402	0.070	0.092	0.077	0.016	0.014	---	---	0.270	MEAN

LOCATION - LAT 49 26 17 N DRAINAGE AREA, 87.3 km^2
LONG 98 11 05 W NATURAL FLOW

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	0.688B ON APR 10	0B ON MAR 1 *	---	1964
1965	---	12.7 ON APR 13	0 ON MAR 1	3 710	1965
1966	12.7 AT 07:00 CST ON MAY 5	6.34 ON MAY 5	0B ON MAR 1	4 660	1966
1967	---	11.9 ON APR 21	0B ON MAR 1	4 970	1967
1968	23.2 AT 19:30 CST ON AUG 24 *	10.1 ON AUG 25	0B ON MAR 1	5 620	1968
1969	22.7 ON APR 10	19.4 ON APR 10	0B ON MAR 1	13 400	1969
1970	18.5 AT 07:35 CST ON APR 30	17.1 ON APR 30	0B ON MAR 1	16 200	1970
1971	13.4 B AT 13:40 CST ON APR 9	9.71 B ON APR 9	0B ON MAR 1	5 280	1971
1972	---	4.16 B ON MAR 19	0B ON MAR 1	5 090	1972
1973	0.518B AT 17:10 CST ON MAR 15	0.436B ON MAR 14	0B ON MAR 1	452	1973
1974	22.1 AT 11:20 CST ON APR 21	19.3 ON APR 21	0B ON MAR 1	17 500	1974
1975	4.50 AT 01:13 CST ON JUN 29	3.96 ON JUN 29	0B ON MAR 1	2 040	1975
1976	7.82 B AT 14:41 CST ON APR 3	4.45 B ON APR 3	0B ON MAR 1	3 500	1976
1977	0.869 AT 11:56 CST ON SEP 26	0.773 ON SEP 26	0B ON MAR 1	254	1977
1978	5.18 AT 11:59 CST ON MAY 26	3.43 ON MAY 26	0B ON MAR 1	4 390	1978
1979	---	26.8 B ON APR 20 *	0B ON MAR 1	14 300	1979
1980	---	1.46 B ON APR 7	0B ON MAR 1	588	1980
1981	---	0.339B ON MAR 16	0 ON APR 29	337	1981
1982	---	1.16 B ON APR 14	0B ON MAR 1	768	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 730	MEAN

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.202	1.61	0.260	0.104	0.042	0	0	0.040	---	---	0.279	1959
1960	---	---	0.047	4.73	0.233	0.029	0	0	0	0	---	---	0.619	1960
1961	---	---	0.833	0.648	0.087	0.002	0	0	0	0	---	---	0.196	1961
1962	---	---	0	1.57	1.31	0.313	0.021	0	0	0	---	---	0.400	1962
1963	---	---	0.367	0.098	0.002	0.447	0	0	0	0	---	---	0.113	1963
MEAN	---	---	0.290	1.73	0.378	0.179	0.013	0	0	0.008	---	---	0.321	MEAN

LOCATION - LAT 49 25 42 N DRAINAGE AREA, 231 km^2
LONG 98 08 01 W NATURAL FLOW

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	8.72 ON APR 3	0B ON MAR 1 *	5 980	1959
1960	---	12.7 B ON APR 6 *	0B ON MAR 1	13 100	1960
1961	---	4.64B ON MAR 26	0B ON MAR 1	4 150	1961
1962	---	12.7 B ON APR 18	0 ON MAR 1	8 460	1962
1963	---	5.13 ON JUN 10	0B ON MAR 1	2 400	1963
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 800	MEAN

TOUROND CREEK NEAR TOUROND - STATION NO. 05OE009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	2.51	0.311	0.077	0.060	0.051	0.005	0.016	---	---	0.373	1969
1970	---	---	0	2.19	2.88	0.662	0.043	0	0.011	0.015	---	---	0.723	1970
1971	---	---	0	1.76	0.081	0.006	0.008	0.005	0.003	0.038	---	---	0.233	1971
1972	---	---	0.060	0.529	0.065	0.016	0	0.005	0.001	0.005	---	---	0.084	1972
1973	---	---	0.723	0.063	0.011	0.010	0.003	0	0.058	0.037	---	---	0.114	1973
1974	---	---	0	4.95	4.75	0.420	0.003	0	0	0	---	---	1.26	1974
1975	---	---	0	0.260	0.054	0.486	0.444	0	0	0	---	---	0.158	1975
1976	---	---	0.002	0.484	0.008	0.260	0.007	0	0	0	---	---	0.093	1976
1977	---	---	0.027	0.151	0.007	0.006	0	0.001	0.030	0.007	---	---	0.028	1977
1978	---	---	0.001	1.54	0.109	0.015	0.003	0	0.002	0	---	---	0.206	1978
1979	---	---	0	2.53	1.09	0.532	0.011	0.005	0.004	0	---	---	0.515	1979
1980	---	---	0	0.529	0.005	0	0	0	0	0	---	---	0.065	1980
1981	---	---	0.031	0.021	0.013	0.113	0.005	0.003	0	0.007	---	---	0.024	1981
1982	---	---	0.523	1.99	0.137	0.709	1.43	1.34	0.017	0.076	---	---	0.776	1982
MEAN	---	---	0.098	1.39	0.680	0.237	0.144	0.101	0.009	0.014	---	---	0.332	MEAN

LOCATION - LAT 49 31 50 N DRAINAGE AREA, 237 km^2
LONG 96 58 50 W NATURAL FLOW

TOUROND CREEK NEAR TOUROND - STATION NO. 05OE009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	10.6 B ON APR 10	0 B ON MAR 1 *	7 900	1969
1970	---	8.13 ON MAY 16	0 B ON MAR 1	15 300	1970
1971	---	10.6 B ON APR 9	0 B ON MAR 1	4 930	1971
1972	---	1.40 ON APR 19	0 B ON MAR 1	1 780	1972
1973	---	2.37 B ON MAR 13	0 B ON MAR 1	2 420	1973
1974	---	26.9 ON MAY 21 *	0 B ON MAR 1	26 600	1974
1975	---	8.38 E ON JUN 30	0 B ON MAR 1	3 270	1975
1976	---	3.20 ON JUN 12	0 B ON MAR 1	1 980	1976
1977	---	0.943B ON APR 9	0 B ON MAR 1	597	1977
1978	---	6.77 B ON APR 9	0 B ON MAR 1	4 350	1978
1979	---	17.3 B ON APR 19	0 B ON MAR 1	10 900	1979
1980	5.60 AT 21:46 CST ON APR 5	4.76 B ON APR 6	0 B ON MAR 1	1 380	1980
1981	3.00 AT 22:41 CST ON JUN 27	1.79 ON JUN 28	0 ON MAY 16	507	1981
1982	9.46 AT 02:14 CST ON JUL 29 *	9.28 ON JUL 29	0.001B ON MAR 1	16 400	1982
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 020	MEAN

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0.175	0.045	0.019	0	0	0	0	---	---	0.029	1978
MEAN	---	---	0	0.175	0.045	0.019	0	0	0	0	---	---	0.029	MEAN

LOCATION - LAT 49 54 34 N   DRAINAGE AREA, 11.4 km^2
LONG 97 15 50 W   NATURAL FLOW

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	0.917B AT 13:58 CST ON APR 10 *	0.917 ON APR 11 *	0B ON MAR 1 *	623	1978
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		623	MEAN

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	0.205	0.123	0.018	0.015	0.006	0.027	0.001	---	---	0.052	1978
MEAN	---	---	0.027	0.205	0.123	0.018	0.015	0.006	0.027	0.001	---	---	0.052	MEAN

LOCATION - LAT 49 53 18 N   DRAINAGE AREA, 16.3 km^2
LONG 97 13 40 W   NATURAL FLOW

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	4.22 AT 23:21 CST ON MAY 25 *	1.23 ON MAY 26 *	0B ON MAR 1 *	1 110	1978
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 110	MEAN

TUMBLEWELL CREEK NEAR SOUTH INDIAN LAKE - STATION NO. 06EC004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	---	---	---	0.024	0.026	0.132	0.065	---	---	---	---	1978
MEAN	---	---	---	---	---	0.024	0.026	0.132	0.065	---	---	---	---	MEAN

LOCATION - LAT 56 46 30 N   DRAINAGE AREA, 4.14 km^2 DATA CONTRIBUTED BY -
LONG 99 07 05 W   NATURAL FLOW   FRESHWATER INSTITUTE (DFO) (CANADA)

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1927	---	---	---	---	18.8	---	---	3.80	0.527	1.03	---	---	---	1927
1928	---	---	---	---	2.57	10.2	3.30	0.516	0.113	---	---	---	---	1928
1948	---	---	---	---	---	0.989	2.02	1.95	0.250	0.276	---	---	---	1948
1949	---	---	---	5.93	1.84	2.19	2.40	0.524	0.248	0.527	---	---	---	1949
1950	---	---	---	6.58	17.7	9.42	6.01	1.89	0.963	1.25	---	---	---	1950
1951	---	---	---	10.0	4.97	2.37	0.627	0.525	0.573	1.20	---	---	---	1951
1952	---	---	---	9.98	1.21	0.692	0.363	0.585	2.33 R	0.522R	---	---	---	1952
1953	---	---	---	9.71	15.1	24.1	7.72	2.50	1.44	1.23	---	---	---	1953
1954	---	---	---	6.02	7.06	10.9	3.32	0.729	4.66	3.42	1.98	---	---	1954
1955	---	---	---	13.8	12.0	14.9	1.88	0.549	0.438	0.521	---	---	---	1955
1956	---	---	---	7.65	9.75	20.7	12.7	1.09	0.776	0.683	---	---	---	1956
1957	---	---	0.612	12.1	4.49	5.23	0.671	0.459	0.687	0.632	---	---	3.07	1957
1958	---	---	1.54	3.57	1.18	0.464	1.49	0.102R	0.094R	0.353R	---	---	1.10 R	1958
1959	---	---	0.604	3.87	4.85	1.25	0.582R	0.154R	0.281R	0.746	---	---	1.54 R	1959
1960	---	---	0.057	18.2	10.5	1.99	0.528	0.546	0.250	0.358	---	---	4.01	1960
1961	---	---	0.125	0.860	2.01	0.163	0.038	0	0.011	0.104	---	---	0.414	1961
1962	---	---	0	3 61	2.40	2.46	0.195	0.162	0.098	0.171	---	---	1.13	1962
1963	---	---	1.31	10.1	4.24	7.08	1.01	0.266	0.486	0.445	---	---	3.09	1963
1964	---	---	0.009	7.01	2.74	0.570	0.249	0.121	0.134	0.091	---	---	1.35	1964
1965	---	---	0	6.05	7.05	3.26	0.844	0.392	4.34	0.981	---	---	2.85	1965
1966	---	---	3.69	8.63	9.81	1.91	0.571	1.27	0.234	0.201	---	---	3.29	1966
1967	---	---	0.032	13.7	10.5	1.25	0.329	0.164	0.056	0.358	---	---	3.28	1967
1968	---	---	0.829	2.77	2.84	1.27	1.83	1.65	1.09	0.706	---	---	1.62	1968
1969	---	---	0.122	13.9	2.59	5.93	4.44	0.572	0.709	0.867	---	---	3.61	1969
1970	---	---	0.202	11.0	19.6	4.26	1.67	0.367	0.773	1.10	---	---	4.87	1970
1971	---	---	0.031	9.03	1.94	15.7	3.51	0.691	0.574	3.08	---	---	4.27	1971
1972	---	---	0.690	18.4	5.77	1.14	0.392	0.265	0.222	0.442	---	---	3.37	1972
1973	---	---	1.06	1.30	1.56	2.78	0.367	0.579	1.49	1.67	---	---	1.34	1973
1974	---	---	0.314	21.6	20.7	3.72	0.789	0.366	0.438	0.430	---	---	6.01	1974
1975	---	---	0.153	7.99	6.32	4.58	0.721	8.18	38.0	8.46	---	---	9.21	1975
1976	---	---	0.649	39.2	4.16	5.47	0.909	0.265	0.280	0.481	---	---	6.32	1976
1977	---	---	0.099	1.25	1.75	0.717	3.77	0.578	3.96	1.53	---	---	1.70	1977
1978	---	---	0.355	9.65	2.30	0.975	0.402	0.138	0.635	0.538	---	---	1.85	1978
1979	---	---	0.083	20.5	20.8	3.59	0.640	0.292	0.377	0.385	---	---	5.80	1979
1980	---	---	0.122	7.04	0.591	0.208	0.243	1.69	1.88	1.18	---	---	1.60	1980
1981	---	---	0.650	3.13	3.56	4.48	0.871	0.509	0.359	0.772	---	---	1.78	1981
1982	---	---	0.148	10.3	3.87	0.973	0.448	0.273	0.238	1.06	---	---	2.14	1982
MEAN	---	---	0.519	9.84	6.92	4.94	1.88 R	0.938R	1.89 R	1.05 R	1.98	---	3.10	MEAN

LOCATION - LAT 50 56 40 N DRAINAGE AREA, 974 km²
LONG 99 31 15 W NATURAL FLOW

R - REVISED SINCE JAN 1980

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1927	---	---	---	---	1927
1928	---	48.4 ON JUN 21	---	---	1928
1948	---	---	---	---	1948
1949	---	17.6 B ON APR 4	---	---	1949
1950	---	45.9 ON JUN 9	---	---	1950
1951	---	37.4 ON APR 29	---	---	1951
1952	---	34.8 B ON APR 8	0 ON AUG 21 *	---	1952
1953	---	86.9 E ON JUN 5	---	---	1953
1954	---	51.5 ON JUN 8	---	---	1954
1955	---	79.0 ON JUN 18	---	---	1955
1956	---	62.0 ON JUN 20	---	---	1956
1957	---	61.4 ON APR 25	0.113B ON MAR 1	64 800	1957
1958	13.1 AT 23:30 CST ON JUL 6	12.3 B ON MAR 31	0 R ON AUG 19	23 200R	1958
1959	21.5 AT 05:00 CST ON MAY 4	17.7 ON MAY 4	0 B ON MAR 1	32 600R	1959
1960	45.0B AT 03:30 CST ON APR 13	42.5 B ON APR 13	0.057B ON MAR 1	85 000	1960
1961	---	7.42A ON MAY 7	0 B ON MAR 1	8 750	1961
1962	27.0 AT 22:50 CST ON MAY 30	20.8 ON MAY 31	0 B ON MAR 1	23 800	1962
1963	37.4B AT 18:25 CST ON APR 8	34.5 B ON APR 8	0 B ON MAR 1	65 400	1963
1964	---	25.7 B ON APR 12	0 B ON MAR 1	28 600	1964
1965	35.4B AT 12:30 CST ON APR 13	30.0 B ON APR 13	0 B ON MAR 1	60 200	1965
1966	47.6 AT 08:15 CST ON MAY 5	41.6 ON MAY 5	0.065B ON MAR 1	69 600	1966
1967	---	71.6 B ON APR 16	0 ON SEP 9	69 400	1967
1968	16.6 AT 23:45 CST ON JUL 1	12.1 ON APR 21	0.042B ON MAR 1	34 400	1968
1969	84.1B AT 20:10 CST ON APR 12	79.0 B ON APR 12	0.122B ON MAR 1	76 400	1969
1970	55.8B AT 02:45 CST ON APR 30	52.1 B ON APR 30	0.125 ON SEP 10	103 000	1970
1971	98.3 AT 20:55 CST ON JUN 6	84.4 ON JUN 7	0.031B ON MAR 1	90 400	1971
1972	---	41.9 B ON APR 12	0.017 ON SEP 1	71 400	1972
1973	17.2 AT 22:50 CST ON JUN 20	13.4 ON JUN 21	0.062 ON JUL 12	28 400	1973
1974	114 B AT 22:45 CST ON APR 20	103 B ON APR 20	0.150 ON AUG 10	127 000	1974
1975	260 AT 17:28 CST ON SEP 19 *	227 ON SEP 20 *	0.153B ON MAR 1	195 000	1975
1976	97.1B AT 22:30 CST ON APR 7	84.4 ON APR 9	0.079 ON SEP 12	134 000	1976
1977	68.5 AT 05:20 CST ON JUL 12	51.8 ON JUL 12	0.051B ON MAR 1	36 100	1977
1978	---	18.4 B ON APR 18	0.031 ON AUG 13	39 200	1978
1979	96.8 AT 00:45 CST ON APR 24	81.3 ON APR 24	0.083B ON MAR 1	123 000	1979
1980	21.7 AT 05:42 CST ON APR 6	20.8 B ON APR 6	0.009 ON AUG 2	33 800	1980
1981	16.9 AT 01:05 CST ON JUN 16	14.0 ON JUN 16	0 B ON MAR 1	37 700	1981
1982	44.9B AT 11:52 CST ON APR 15	38.2 B ON APR 15	0 B ON MAR 1	45 400	1982
MEAN				65 600R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1948	---	---	---	---	8.82	---	---	---	---	---	---	---	---
1949	---	---	---	6.73	1.87	2.67	1.98	0.388	0.289	0.257	---	---	---
1950	---	---	---	---	18.8	11.6	6.17	3.19	1.55	1.25	---	---	---
1951	---	---	---	11.8	5.61	2.40	1.14	0.883	0.706	1.12	---	---	---
MEAN	---	---	---	9.27	8.78	5.56	3.10	1.49	0.848	0.876	---	---	---

LOCATION - LAT 51 03 35 N DRAINAGE AREA, 1 090 km²
LONG 99 31 50 W NATURAL FLOW

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)
1948	---	64.3 ON APR 23	---	---
1949	---	22.5B ON APR 5	---	---
1950	---	68.8 ON JUN 10 *	---	---
1951	---	48.4 ON APR 29	---	---
MEAN				---

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05NG016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1964	---	---	0	0.573	0.644	0.026	0.010	0	0	0	---	---	0.156
1965	---	---	0	0.693	0.253	0.301	0.226	0.042	0.073	0.066	---	---	0.205
1966	---	---	0.301	0.504	0.256	0.047	0.034	0	0	0.002	---	---	0.142
1967	---	---	0.019	0.148	0.128	0.017	0	0	0	0	---	---	0.039
1968	---	---	0.021	0.029	0.023	0.006	0.014	0.199	0.025	0.014	---	---	0.042
1969	---	---	0	2.29	0.174	0.026	0.104	0.002	0	0.002	---	---	0.320
1970	---	---	0	0.566	0.518	0.018	0	0	0	0	---	---	0.137
1971	---	---	0.002	0.671	0.037	0.670	0.053	0.005	0.018	0.057	---	---	0.186
1972	---	---	0.779	1.54	0.233	0.189	0.005	0.013	0	0	---	---	0.342
1973	---	---	0.074	0.006	0.007	0.064	0.017	0.017	0	0.010	---	---	0.024
1974	---	---	0	1.50	0.792	0.155	0.025	0	0	0	---	---	0.306
1975	---	---	0	1.79	0.609	0.149	0.008	0	0.089	0.162	---	---	0.347
1976	---	---	0.116	2.38	0.170	0.030	0.004	0	0	0	---	---	0.332
1977	---	---	0.008	0.008	0.011	0	0	0	0	0	---	---	0.003
1978	---	---	0.017	0.068	0.018	0.010	0.006	0	0	0	---	---	0.015
1979	---	---	0	0.347	0.167	0.029	0	0	0	0	---	---	0.067
1980	---	---	0.008	0.039	0.002	0	0	0.001	0.006	0.010	---	---	0.008
1981	---	0.143	0.036	0.015	0.010	0.003	0	0	0	0	---	---	0.008
1982	---	---	0.039	0.499	0.074	0.039	0	0	0	0	---	---	0.080
MEAN	---	0.143	0.075	0.719	0.217	0.094	0.027	0.015	0.011	0.017	---	---	0.145

LOCATION - LAT 49 07 59 N DRAINAGE AREA, 75.1 km²
LONG 100 23 57 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.544 AND 0 m^3/s OCCURRED IN FEB

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05NG016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)
1964	---	2.69 ON MAY 8	0B ON MAR 1 *	3 310
1965	---	1.59 B ON APR 12	0B ON MAR 1	4 340
1966	---	1.55 ON APR 8	0B ON MAR 1	3 020
1967	---	0.371 ON APR 30	0B ON MAR 1	823
1968	---	1.23 ON AUG 24	0B ON MAR 1	880
1969	---	6.82 ON APR 9	0B ON MAR 1	6 770
1970	---	3.20 ON APR 29	0B ON MAR 1	2 910
1971	---	4.79 ON APR 7	0B ON MAR 1	3 940
1972	---	2.74 ON APR 18	0B ON MAR 1	7 240
1973	---	0.413 ON AUG 21	0B ON MAR 1	517
1974	---	5.52 B ON APR 21	0B ON MAR 1	6 480
1975	---	9.34 ON APR 28 *	0B ON MAR 1	7 340
1976	---	4.64 ON APR 10	0 ON JUL 15	7 030
1977	---	0.034 ON MAY 5	0B ON MAR 1	59.4
1978	---	0.294B ON MAR 31	0B ON MAR 1	312
1979	---	3.96 B ON APR 19	0B ON MAR 1	1 420
1980	---	0.138B ON APR 6	0B ON MAR 1	176
1981	---	0.094B ON MAR 1	0 ON JUN 26	169
1982	3.53 AT 17:51 CST ON APR 12 *	2.28 B ON APR 13	0B ON MAR 1	1 700
MEAN				3 080

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NG017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.252	0.368	0.057	0.048	0	0.001	0	---	---	0.091	1964
1965	---	---	0	0.519	0.413	0.252	0.175	0.015	0.070	0.084	---	---	0.190	1965
1966	---	---	0.330	0.531	0.479	0.039	0.026	0	0	0	---	---	0.175	1966
1967	---	---	0.001	0.117	0.124	0.001	0	0	0	0	---	---	0.030	1967
1968	---	---	0.009	0.010	0.005	0.001	0	0.164	0.007	0.005	---	---	0.025	1968
1969	---	---	0	1.60	0.179	0.016	0.123	0.001	0	0.004	---	---	0.237	1969
1970	---	---	0	0.626	0.613	0.020	0.002	0	0	0	---	---	0.157	1970
1971	---	---	0.004	0.584	0.057	0.502	0.072	0	0.003	0.029	---	---	0.154	1971
1972	---	---	0.606	0.950	0.255	0.187	0.012	0.009	0	0.002	---	---	0.251	1972
1973	---	---	0.024	0.020	0.035	0.060	0.007	0.006	0.002	0.002	---	---	0.020	1973
1974	---	---	0.004	1.48	0.782	0.156	0	0	0	0	---	---	0.300	1974
1975	---	---	0	1.49	0.073	0.225	0.002	0.001	0.105	0.270	---	---	0.367	1975
1976	---	---	0.113	2.39	0.272	0.017	0	0	0	0	---	---	0.343	1976
MEAN	---	---	0.084	0.813	0.343	0.118	0.036	0.015	0.014	0.030	---	---	0.180	MEAN

LOCATION - LAT 49 09 43 N DRAINAGE AREA, 79.5 km²
LONG 100 25 03 W REGULATED

TURTLEHEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NG017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1964	---	0.991 ON MAY 7	0B ON MAR 1 *	1 920	1964
1965	---	1.03 ON APR 14	0B ON MAR 1	4 030	1965
1966	---	1.29 ON APR 2	0B ON MAR 1	3 710	1966
1967	---	0.365 ON APR 30	0B ON MAR 1	643	1967
1968	---	1.42 ON AUG 18	0B ON MAR 1	536	1968
1969	---	3.65 ON APR 9	0B ON MAR 1	5 010	1969
1970	---	3.45 ON APR 29	0B ON MAR 1	3 320	1970
1971	---	2.83 B ON APR 9	0B ON MAR 1	3 250	1971
1972	---	1.74 ON APR 17	0B ON MAR 1	5 310	1972
1973	---	0.224 ON JUN 21	0B ON MAR 1	413	1973
1974	---	5.18 ON APR 21	0B ON MAR 1	6 330	1974
1975	---	9.46 ON APR 28 *	0B ON MAR 1	7 780	1975
1976	---	4.98 ON APR 6	0E ON JUN 20	7 260	1976
				3 810	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NG011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.021	---	---	---	---	---	---	---	---	1936
1959	---	---	0.078	0.029	0.008	0.002	0	0.097	0.019	1.54	---	---	0.224	1959
1960	---	---	0.015	2.19	0.928	0.335	0	0	0	0	---	---	0.429	1960
1961	---	---	0.076	0.011	0.029	0	0	0	0	0	---	---	0.015	1961
1962	---	---	0.009	0.146	0.025	0.096	0.003	0	0	0	---	---	0.034	1962
1963	---	---	0.067	0.002	0.002	0.160	0	0	0	0	---	---	0.029	1963
MEAN	---	---	0.049	0.476	0.169	0.119	0.001	0.019	0.004	0.308	---	---	0.146	MEAN

LOCATION - LAT 49 11 18 N DRAINAGE AREA, 93.8 km²
LONG 100 26 03 W NATURAL FLOW

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NG011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1936	---	---	---	---	1936
1959	---	4.02 ON OCT 17	0B ON MAR 1 *	4 740	1959
1960	---	4.53 ON MAY 27 *	0B ON MAR 1	9 080	1960
1961	---	0.496 ON MAR 21	0 ON MAR 1	309	1961
1962	---	1.03 ON APR 6	0B ON MAR 1	728	1962
1963	---	1.09 ON JUN 13	0 ON MAR 27	603	1963
				3 090	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT TIMBERTON - STATION NO. 05LJ024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.316	3.59	4.65	1.00	0.664	1.11	0.199	0.105	---	---	1.45	1957
1958	---	---	0.380	0.647	0.215	0.131	0.070	0.019	0.028	0.050	---	---	0.192	1958
1959	---	---	0	0.062	0.408	1.60	2.79	0.813	0.433	0.521	---	---	0.829	1959
1960	---	---	0.533	1.41	3.18	5.02	1.13	0.322	0.162	0.058	---	---	1.47	1960
1961	---	---	0.109	0.154	0.183	0.035	0.306	0.229	0.067	0.117	---	---	0.151	1961
1962	---	---	0.007	0.278	0.205	0.124	0.019	0.006	0.008	0.014	---	---	0.082	1962
1963	---	---	0.038	0.361	0.119	0.124	0.163	0.012	0.006	0.009	---	---	0.103	1963
1964	---	---	0.042	0.148	0.178	0.022	0.009	0.546	0.009	0.011	---	---	0.121	1964
1965	---	---	0.028	0.165	0.236	0.082	0.055	0.291	0.288	0.779	---	---	0.241	1965
1966	---	---	0.604	0.902	1.88	2.33	2.97	0.582	0.257	0.243	---	---	1.22	1966
1967	---	---	0.400	0.721	0.679	0.192	0.088	0.037	0.137	0.173	---	---	0.302	1967
1968	---	---	0.416	0.441	0.168	0.153	0.174	0.085	0.034	0.018	---	---	0.186	1968
1969	---	---	0.245	0.360	0.118	0.185	0.423	0.289	0.085	0.260	---	---	0.246	1969
1970	---	---	0.368	0.707	6.25	4.02	2.96	1.80	0.682	0.508	---	---	2.17	1970
1971	---	---	0.357	1.22	1.24	1.29	1.05	0.431	0.155	0.740	---	---	0.809	1971
1972	---	---	0.756	1.06	2.92	1.62	0.673	0.220	0.108	0.238	---	---	0.949	1972
1973	---	---	0.190	1.01	0.164	0.479	1.00	0.638	0.609	1.39	---	---	0.685	1973
1974	---	---	0.443	1.43	9.19	6.52	1.77	0.591	0.272	0.466	---	---	2.58	1974
1975	---	---	0.249	1.16	7.02	5.82	2.68	0.936	1.34	2.08	---	---	2.66	1975
1976	---	---	0.447	2.57	2.95	10.9	---	---	---	---	---	---	---	1976
MEAN	---	---	0.296	0.920	2.10	2.08	0.999	0.471	0.257	0.409	---	---	0.866	MEAN

LOCATION - LAT 51 13 51 N DRAINAGE AREA, 741 km²
LONG 100 57 43 W REGULATED

VALLEY RIVER AT TIMBERTON - STATION NO. 05LJ024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	6.82 ON APR 30	0.028 ON OCT 25	30 800	1957
1958	---	1.19 B ON APR 8	0 ON AUG 4 *	4 060	1958
1959	---	4.79 ON JUN 30	0 B ON MAR 1	17 500	1959
1960	---	11.6 ON MAY 31	0.020 ON SEP 14	31 100	1960
1961	---	0.960 ON JUL 17	0 ON JUN 29	3 190	1961
1962	---	1.35 ON APR 23	0 B ON MAR 1	1 730	1962
1963	---	0.572B ON APR 18	0.006 ON AUG 11	2 190	1963
1964	---	1.98 E ON AUG 9	0.006 ON SEP 22	2 570	1964
1965	---	1.00 ON OCT 17	0.014 ON JUL 11	5 110	1965
1966	---	6.03 ON JUL 1	0.176 ON AUG 23	25 800	1966
1967	---	1.08 B ON APR 25	0.006 ON AUG 29	6 390	1967
1968	---	1.31 B ON APR 8	0.011 ON AUG 5	3 920	1968
1969	---	0.886E ON JUN 29	0.027 ON SEP 13	5 210	1969
1970	9.71 AT 07:01 CST ON MAY 18	9.26 ON MAY 18	0.368B ON MAR 1	45 800	1970
1971	3.34 AT 17:08 CST ON APR 24	2.61 ON APR 24	0.065 ON SEP 25	17 100	1971
1972	6.97 AT 01:34 CST ON MAY 21	5.38 ON MAY 21	0.037 ON SEP 16	20 100	1972
1973	3.94B AT 09:47 CST ON APR 23	3.28 B ON APR 23	0.076 ON JUN 2	14 500	1973
1974	12.4 AT 14:59 CST ON MAY 28	12.3 ON MAY 28	0.093 ON SEP 16	54 700	1974
1975	12.5 AT 09:19 CST ON MAY 11 *	11.1 ON MAY 11	0.249B ON MAR 1	56 300	1975
1976	---	21.0 E ON JUN 24 *	---	---	1976
MEAN				18 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT VALLEY RIVER - STATION NO. 05LJ004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE "ERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	5.65	---	---	1912
1913	---	---	---	45.3	18.6	7.22	41.1	8.07	3.02	1.85	1.16	0.283	---	1913
1914	0.113	0	0.057	5.24	31.2	8.06	1.92	0.337	0.442	0.578	0.336	0.227	4.08	1914
1915	0	0	0	2.27	1.50	2.15	2.56	0.253	0.588	1.08	0.545	0	0.914	1915
1916	0.028	0.028	0.340	13.0	12.3	22.5	13.3	[illegible].06	1.75	1.73	1.41	0.142	5.79	1916
1917	0	0	0	10.5	23.6	9.84	14.1	2.20	1.97	0.951	0.728	0.105	5.37	1917
1918	0	0	5.67	5.45	7.88	3.09	2.33	2.51	0.863	0.816	0.752	0.192	2.48	1918
1919	0.100	0.057	0.060	8.14	9.54	2.41	6.99	1.20	1.06	1.95	0.488	0.110	2.69	1919
1920	---	---	---	---	29.4	8.25	2.27	0.603	1.24	1.29	---	---	---	1920
1921	---	---	---	---	15.3	39.6	8.12	2.34	6.02	6.36	11.9	---	---	1921
1922	---	---	1.24	39.8	66.4	11.7	2.54	0.851	1.28	---	---	---	---	1922
1923	---	---	---	---	---	---	---	---	---	1.88	1.42	---	---	1923
1924	---	---	---	---	18.5	7.45	3.56	2.09	1.40	3.34	3.06	---	---	1924
1925	---	---	---	50.7	11.4	16.8	18.4	1.32	0.481	1.12	---	---	---	1925
1926	---	---	---	---	4.42	2.67	1.30	0.306	2.31	4.93	---	---	---	1926
1927	---	---	---	---	34.7	22.9	27.1	7.35	5.67	4.06	---	---	---	1927
1928	---	---	---	10.8	13.6	28.7	23.0	5.48	2.05	---	---	---	---	1928
MEAN	0.040	0.014	1.05	19.1	19.4	12.9	10.7	2.53	2.01	2.28	2.50	0.151	3.55	MEAN

LOCATION - LAT 51 15 10 N DRAINAGE AREA, 2 720 km²
LONG 100 08 40 W NATURAL FLOW

VALLEY RIVER AT VALLEY RIVER - STATION NO. 05LJ004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	101 ON JUL 13	---	---	1913
1914	---	66.3 ON MAY 9	0 B ON FEB 1 *	129 000	1914
1915	---	5.97 ON JUL 20	0 B ON JAN 1	28 800	1915
1916	---	64.3 ON JUN 27	0.028B ON JAN 1	183 000	1916
1917	---	41.3 ON MAY 10	0 B ON JAN 1	169 000	1917
1918	---	20.0 B ON MAR 29	0 B ON JAN 1	78 300	1918
1919	---	20.0 ON APR 10	0.028B ON DEC 19	84 900	1919
1920	---	105 B ON APR 23	---	---	1920
1921	---	118 ON JUN 17	---	---	1921
1922	---	144 ON MAY 5 *	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	93.7 ON APR 7	---	---	1925
1926	---	---	---	---	1926
1927	---	100 ON APR 19	---	---	1927
1928	---	73.6 ON JUN 22	---	---	1928
				112 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	40.7	4.35	15.7	6.10	1.01	0.501	---	---	---	1948
1949	---	---	---	7.26	2.05	5.14	2.15	1.40	0.041	0.047	---	---	---	1949
1950	---	---	---	---	8.47	6.29	3.08	1.60	0.114	1.04	---	---	---	1950
1951	---	---	---	17.6	19.3	2.59	3.26	2.09	2.71	2.73	---	---	---	1951
1952	---	---	---	20.1	3.36	1.82	0.487	0.033	0.368	0.259	---	---	---	1952
1953	---	---	---	13.1	9.49	35.4	17.7	5.44	2.63	4.11	4.54	---	---	1953
1954	---	---	---	20.5	22.2	44.6	24.8	2.65	9.27	11.2	4.61	---	---	1954
1955	---	---	---	31.0	23.6	13.1	4.58	1.67	0.378	0.581	---	---	---	1955
1956	---	---	---	13.4	40.8	13.6	13.4	3.56	2.28	1.30	---	---	---	1956
1957	---	---	1.07	28.9	13.6	3.05	1.17	1.14	0.383	0.348	---	---	6.15	1957
1958	---	---	1.39	6.56	1.04	0.575	0.408	0.035	0.015	0.034	---	---	1.24	1958
1959	---	---	1.17	5.52	2.08	6.57	5.18	0.805	0.607	0.920	---	---	2.84	1959
1960	---	---	0.283	28.7	8.92	9.21	1.32	0.295	0.038	0	---	---	6.01	1960
1961	---	---	0.259	1.10	0.844	0.090	0	0	0	0	---	---	0.286	1961
1962	---	---	0	4.59	1.13	0.511	0.022	0.001	0.001	0	---	---	0.771	1962
1963	---	---	1.28	4.19	1.35	1.76	1.20	0.048	0.001	0	---	---	1.22	1963
1964	---	---	0	3.98	2.18	0.081	0.007	0	0	0	---	---	0.775	1964
1965	---	---	0	7.77	3.15	1.31	1.76	1.84	1.67	1.33	---	---	2.34	1965
1966	---	---	0.748	23.7	9.74	4.64	5.10	0.862	0.290	0.126	---	---	5.61	1966
1967	---	---	0.297	25.1	12.8	0.954	0.184	0.022	0	0.002	---	---	4.88	1967
1968	---	---	2.98	5.28	0.583	0.128	0.019	0.015	0.008	0.003	---	---	1.12	1968
1969	---	---	0.105	14.1	1.14	0.226	2.02	0.904	0.081	0.565	---	---	2.36	1969
1970	---	---	0.487	25.5	22.1	7.70	5.51	2.91	0.445	0.889	---	---	8.16	1970
1971	---	---	0.751	24.3	3.73	8.42	2.42	0.730	0.068	1.15	---	---	5.13	1971
1972	---	---	2.58	21.2	8.86	2.61	0.854	0.425	0.557	0.608	---	---	4.67	1972
1973	---	---	0.685	1.42	0.936	1.64	1.22	0.549	1.40	2.22	---	---	1.26	1973
1974	---	---	0.504	46.6	38.4	13.0	2.14	0.661	0.426	0.573	---	---	12.7	1974
1975	---	---	0.433	24.6	18.8	11.6	3.75	1.32	5.76	4.73	---	---	8.82	1975
1976	---	---	1.32	30.0	7.04	31.3	9.36	1.66	1.14	0.201	---	---	10.1	1976
1977	---	---	0.394	2.44	1.32	0.702	0.629	0.474	1.20	3.45	---	---	1.32	1977
1978	---	---	0.644	12.3	3.23	1.19	0.561	0.381	0.270	0.279	---	---	2.33	1978
1979	---	---	0.260	44.8	22.3	12.3	1.85	0.350	0.233	0.267	---	---	10.2	1979
1980	---	---	0.283	13.0	1.22	0.213	0.054	0.132	0.070	0.108	---	---	1.85	1980
1981	---	---	1.57	2.21	1.28	1.25	3.16	0.269	0.045	0.074	---	---	1.23	1981
1982	---	---	0.046	4.48	1.48	0.484	0.285	0.684	0.117	0.514	---	---	1.00	1982
MEAN	---	---	0.752	16.2	10.3	7.10	3.87	1.17	0.961	1.15	4.58	---	4.01	MEAN

LOCATION - LAT 51 16 45 N   DRAINAGE AREA, 2 870 km^2
LONG 100 00 39 W   REGULATED

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	225 ON APR 26	---	---	1948
1949	---	24.8 B ON APR 7	0 ON SEP 28 *	---	1949
1950	---	64.3 B ON APR 20	---	---	1950
1951	---	56.6 B ON APR 7	---	---	1951
1952	---	47.3 B ON APR 6	0 ON AUG 22	---	1952
1953	---	95.7 ON JUN 4	---	---	1953
1954	---	89.2 ON JUL 1	---	---	1954
1955	---	59.4 B ON APR 7	---	---	1955
1956	---	75.3 ON MAY 6	---	---	1956
1957	---	84.1 ON APR 25	0 ON SEP 29	130 000	1957
1958	---	24.0 B ON APR 4	0 ON AUG 15	26 300	1958
1959	---	23.8 ON JUN 19	0 B ON MAR 1	60 100	1959
1960	---	80.7 ON APR 15	0 ON SEP 20	127 000	1960
1961	---	1.96 ON APR 25	0 B ON MAR 1	6 050	1961
1962	---	34.3 B ON APR 21	0 B ON MAR 1	16 300	1962
1963	---	8.58 ON APR 8	0 B ON MAR 1	25 900	1963
1964	---	16.7 B ON APR 17	0 B ON MAR 1	16 400	1964
1965	---	36.5 ON APR 15	0 B ON MAR 1	49 500	1965
1966	---	66.8 B ON APR 3	0 ON SEP 23	119 000	1966
1967	---	143 ON APR 28	0 ON AUG 18	103 000	1967
1968	---	16.2 B ON MAR 29	0.003 ON SEP 24	23 700	1968
1969	---	85.8 B ON APR 15	0 B ON MAR 1	50 000	1969
1970	116 AT 01:35 CST ON APR 27	110 ON APR 26	0.184 ON SEP 20	173 000	1970
1971	146 B AT 05:06 CST ON APR 12	130 B ON APR 12	0.031 ON SEP 23	109 000	1971
1972	---	60.0 B ON APR 18	0.258 ON AUG 13	98 800	1972
1973	5.10 AT 00:38 CST ON OCT 5	4.76 ON OCT 5	0.116B ON MAR 15	26 600	1973
1974	289 AT 14:03 CST ON APR 20	262 ON APR 20	0.221 ON SEP 28	269 000	1974
1975	82.1 AT 16:00 CST ON APR 30	77.9 ON APR 30	0.433B ON MAR 1	187 000	1975
1976	---	91.2 ON APR 7	0.105 ON OCT 19	214 000	1976
1977	---	4.93 ON APR 15	0.127 ON JUL 7	28 100	1977
1978	---	28.1 B ON APR 13	0.113 ON AUG 12	49 200	1978
1979	464 AT 09:41 CST ON APR 23 *	385 ON APR 23 *	0.048 ON OCT 10	215 000	1979
1980	---	39.3 B ON APR 10	0 ON JUL 30	39 200	1980
1981	48.1 AT 08:44 CST ON JUL 4	39.1 ON JUL 4	0.005 ON SEP 20	26 100	1981
1982	---	13.4 B ON APR 17	0 B ON MAR 1	21 200	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		85 000	MEAN

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	6.14	21.7	9.08	10.4	2.95	1.96	0.882	---	---	---	1956
1958	---	---	0.636	2.62	0.785	0.417	0.170	0.014	0.067	0.028	---	---	0.586	1958
1959	---	---	0.243	1.90	0.781	3.05	4.15	0.801	0.506	0.765	---	---	1.52	1959
1960	---	---	0.204	14.4	5.31	6.14	1.41	0.609	0.342	0.474	---	---	3.57	1960
1961	---	---	0.352	0.597	0.470	0.073	0.178	0.069	0.027	0.024	---	---	0.224	1961
1963	---	---	---	---	---	---	---	---	0	0	---	---	---	1963
1964	---	---	0.057	1.70	1.09	0.050	0	0.503	0.003	0	---	---	0.423	1964
1965	---	---	0.071	4.25	1.70	0.915	0.551	0.480	0.730	0.919	---	---	1.19	1965
1966	---	---	0.468	9.13	4.99	3.35	3.24	0.648	0.171	0.234	---	---	2.76	1966
1967	---	---	0.427	8.96	4.45	0.448	0.133	0.074	0.001	0.318	---	---	1.84	1967
1968	---	---	1.31	2.74	0.458	0.082	0.084	0.017	0.016	0	---	---	0.584	1968
1969	---	---	0.285	7.43	0.569	0.176	1.05	0.740	0.132	0.555	---	---	1.35	1969
1970	---	---	0.365	13.0	11.3	4.27	3.47	1.95	0.492	0.646	---	---	4.43	1970
1971	---	---	0.688	10.2	2.18	4.14	1.96	0.656	0.157	0.896	---	---	2.58	1971
1972	---	---	0.790	11.8	5.14	2.30	0.689	0.508	0.543	0.573	---	---	2.77	1972
1973	---	---	0.682	1.13	0.459	0.772	0.949	0.673	0.728	1.11	---	---	0.813	1973
1974	---	---	0.606	15.1	20.1	10.2	1.84	0.603	0.236	0.336	---	---	6.10	1974
1975	---	---	0.068	13.0	12.3	8.15	3.08	0.953	3.29	3.13	---	---	5.45	1975
1976	---	---	0.681	14.1	5.15	15.5	6.28	1.59	1.22	0.219	---	---	5.54	1976
1977	---	---	0.511	1.07	0.883	0.406	0.427	0.361	0.768	2.11	---	---	0.818	1977
1978	---	---	0.728	6.84	1.92	0.925	0.523	0.506	0.350	0.259	---	---	1.48	1978
1979	---	---	0.170	14.3	11.6	10.4	2.04	0.261	0.668	0.401	---	---	4.95	1979
1980	---	---	0.362	5.57	0.936	0.136	0.088	0.161	0.017	0.191	---	---	0.921	1980
1981	---	---	0.630	0.791	0.628	0.673	2.54	0.341	0.043	0.105	---	---	0.722	1981
1982	---	---	0.180	1.99	0.862	0.279	0.126	0.389	0.134	0.716	---	---	0.582	1982
MEAN	---	---	0.457	7.03	4.82	3.41	1.89	0.661	0.500	0.596	---	---	2.23	MEAN

LOCATION - LAT 51 11 10 N   DRAINAGE AREA, 1 720 km^2
LONG 100 41 40 W   REGULATED

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	46.2 ON MAY 5	---	---	1956
1958	---	6.26B ON APR 4	0 ON AUG 2 *	12 400	1958
1959	---	11.1 ON JUN 17	0.028 ON SEP 23	32 200	1959
1960	---	39.6 ON APR 12	0 ON SEP 11	75 500	1960
1961	---	1.51 ON JUL 18	0 ON JUL 4	4 740	1961
1963	---	---	0 ON AUG 21	---	1963
1964	---	3.17B ON APR 16	0 ON JUN 14	8 970	1964
1965	---	14.7 ON APR 14	0 ON JUL 10	25 200	1965
1966	---	23.6 ON APR 5	0.102 ON SEP 5	58 500	1966
1967	---	37.7 ON APR 27	0 ON SEP 3	38 800	1967
1968	---	5.49B ON MAR 27	0 ON AUG 16	12 400	1968
1969	---	46.7 B ON APR 13	0.005 ON SEP 20	28 700	1969
1970	---	48.4 B ON APR 25	0.261 ON SEP 20	93 800	1970
1971	---	57.8 ON APR 10	0.037 ON SEP 21	54 500	1971
1972	---	37.9 ON APR 17	0.181E ON OCT 30	58 600	1972
1973	---	5.86 ON AUG 28	0.218 ON AUG 19	17 200	1973
1974	---	88.1 ON APR 20 *	0.026 ON SEP 19	129 000	1974
1975	---	50.4 ON APR 21	0.068B ON MAR 1	115 000	1975
1976	---	38.2 B ON APR 6	0.193 ON OCT 6	117 000	1976
1977	---	2.97 ON OCT 13	0.071 ON JUL 10	17 300	1977
1978	---	20.2 B ON APR 18	0.065 ON SEP 27	31 300	1978
1979	89.1B AT 05:21 CST ON APR 22 *	85.7 B ON APR 22	0 ON AUG 31	105 000	1979
1980	---	15.0 B ON APR 8	0 ON JUN 24	19 500	1980
1981	58.9 AT 12:49 CST ON JUL 2	35.0 ON JUL 2	0 ON SEP 13	15 300	1981
1982	---	7.62B ON APR 16	0 ON JUL 10	12 300	1982
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		47 100	MEAN

VALLEY RIVER WEST OF GRANDVIEW - STATION NO. 05LJ018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	---	---	---	9.01	11.7	6.72	2.87	1.20	0.157	0.145	---	---	---	1955
MEAN	---	---	---	9.01	11.7	6.72	2.87	1.20	0.157	0.145	---	---	---	MEAN

LOCATION - LAT 51 11 05 N DRAINAGE AREA, 1 220 km^2
LONG 100 51 08 W NATURAL FLOW

VALLEY RIVER WEST OF GRANDVIEW - STATION NO. 05LJ018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---	17.8B ON APR 9 *	---	---	1955
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	13.9	0.849	3.88	0.890	0.142	0.151	---	---	---	1948
1949	---	---	---	5.09	1.01	2.10	2.36	0.528	0.053	0.115	---	---	---	1949
1950	---	---	---	5.43	11.9	6.83	4.30	0.585	0.308	0.860	---	---	---	1950
1951	---	---	---	10.0	4.41	1.19	0.495	0.330	0.460	1.65	---	---	---	1951
1952	---	---	0.332	11.3	1.16	0.373	0.175	0.103	1.31	0.395	---	---	1.86	1952
1953	---	---	---	10.8	9.66	19.6	3.01	0.768	1.02	1.59	0.823	---	---	1953
1954	---	---	---	5.00	5.60	9.42	4.25	0.760	2.68	3.11	1.08	---	---	1954
1955	---	---	---	12.7	9.70	5.55	0.851	0.158	0.110	0.225		---	---	1955
1956	---	---	0.028	6.82	10.2	15.2	7.80	1.14	0.743	0.567	---	---	5.28	1956
1957	---	---	0.326	18.5	5.32	2.23	0.372	0.241	0.219	0.233	---	---	3.39	1957
1958	---	---	0.794	2.26	0.430	0.152	0.384	0.054	0.036	0.045	---	---	0.516	1958
1959	---	---	0.476	1.64	2.97	1.70	0.675	0.048	0.087	0.457	---	---	1.00	1959
1960	---	---	0.113	14.2	9.69	1.85	0.092	0.066	0.034	0.039	---	---	3.24	1960
1961	---	---	0.032	0.505	0.757	0.098	0.021	0.020	0.063	0.122	---	---	0.202	1961
1962	---	---	0.028	3.61	0.636	0.473	0.066	0.092	0.121	0.070	0.104	---	0.627	1962
1963	---	---	1.31	6.96	2.75	4.09	1.01	0.101	0.157	0.065	---	---	2.03	1963
1964	---	---	0.028	6.68	3.39	0.204	0.154	0.025	0.039	0.132	---	---	1.32	1964
1965	---	---	0.100	7.32	4.98	2.51	0.768	0.184	5.70	1.26	---	---	2.82	1965
1966	---	---	2.10	10.0	8.35	0.956	0.811	0.636	0.122	0.206	---	---	2.89	1966
1967	---	---	0.108	8.90	11.6	0.848	0.101	0.261	0.061	0.100	---	---	2.74	1967
1968	---	---	1.20	1.91	1.04	0.354	1.45	1.08	0.441	0.239	---	---	0.964	1968
1969	---	---	0.139	7.29	0.984	5.62	4.01	0.176	0.166	0.574	---	---	2.34	1969
1970	---	---	0.197	10.4	18.1	3.20	1.09	0.196	0.523	0.798	---	---	4.31	1970
1971	---	---	0.198	10.6	1.73	5.31	1.63	0.585	0.163	1.23	---	---	2.65	1971
1972	---	---	1.27	10.2	4.92	0.577	0.111	0.086	0.091	0.218	---	---	2.16	1972
1973	---	---	0.454	0.741	0.379	0.420	0.059	0.044	1.75	2.78	---	---	0.827	1973
1974	---	---	0.232	26.4	24.2	2.22	0.231	0.190	0.306	0.371	---	---	6.73	1974
1975	---	---	0.088	10.2	6.01	2.65	0.451	2.00	15.9	4.21	---	---	5.14	1975
1976	---	---	0.418	21.4	2.39	10.7	0.909	0.171	0.082	0.240	---	---	4.46	1976
1977	---	---	0.102	0.910	0.484	0.102	1.21	0.341	1.93	0.855	---	---	0.739	1977
1978	---	---	0.287	10.4	2.72	1.10	0.532	0.063	0.313	0.887	---	---	2.01	1978
1979	---	---	0.080	18.8	18.6	3.02	0.461	0.056	0.078	0.108	---	---	5.13	1979
1980	---	---	0.119	3.99	0.259	0.081	0.171	0.370	0.608	0.463	---	---	0.748	1980
1981	---	---	0.689	1.57	1.98	3.24	0.314	0.035	0.014	0.380	---	---	1.02	1981
1982	---	---	0.142	7.38	1.70	0.338	0.186	0.303	0.063	1.21	---	---	1.40	1982
MEAN	---	---	0.407	8.53	5.83	3.29	1.27	0.362	1.03	0.742	0.669	---	2.45	MEAN

LOCATION - LAT 51 11 00 N   DRAINAGE AREA, 673 km²
LONG 100 00 45 W   REGULATED SINCE 1979

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	66.3 ON APR 25	---	---	1948
1949	---	17.9 ON APR 12	---	---	1949
1950	---	41.1 ON MAY 14	---	---	1950
1951	---	48.7 ON APR 29	---	---	1951
1952	---	39.4 B ON APR 7	0 B ON MAR 1 *	39 400	1952
1953	---	75.0 ON JUN 3	---	---	1953
1954	---	34.5 ON JUN 9	---	---	1954
1955	---	37.9 ON MAY 5	---	---	1955
1956	---	148 ON JUN 19	0.028B ON MAR 1	112 000	1956
1957	---	103 ON APR 25	0.085B ON MAR 1	71 800	1957
1958	---	7.59B ON MAR 29	0 B ON MAR 1	10 900	1958
1959	---	9.43 ON MAY 4	0 B ON MAR 1	21 300	1959
1960	---	44.5 ON MAY 27	0.034 ON AUG 28	68 600	1960
1961	---	2.41 ON MAY 9	0.008 ON AUG 7	4 280	1961
1962	---	26.2 ON APR 18	0.028B ON MAR 1	13 300	1962
1963	---	27.8 B ON APR 8	0 B ON MAR 1	43 000	1963
1964	---	22.6 ON APR 27	0 ON JUL 27	27 900	1964
1965	---	42.5 ON APR 12	0.003E ON MAR 1	59 800	1965
1966	---	40.8 B ON MAR 31	0.085B ON MAR 1	61 200	1966
1967	---	38.8 B ON APR 16	0 ON AUG 30	57 900	1967
1968	---	8.16 ON JUL 3	0 ON JUN 24	20 400	1968
1969	---	40.8 ON JUN 28	0.001 ON SEP 16	49 600	1969
1970	---	62.0 B ON APR 26	0.026 ON SEP 7	91 300	1970
1971	---	33.7 B ON APR 11	0.040 ON SEP 4	56 000	1971
1972	---	30.3 ON APR 22	0 ON SEP 14	45 700	1972
1973	---	13.5 ON OCT 4	0 ON AUG 1	17 500	1973
1974	---	170 ON APR 20 *	0 ON JUL 21	142 000	1974
1975	186 AT 01:04 CST ON SEP 20	153 ON SEP 20	0.048 ON JUL 18	109 000	1975
1976	---	87.2 ON JUN 14	0.037 ON SEP 16	94 500	1976
1977	---	9.71 ON JUL 12	0.008 ON JUL 8	15 700	1977
1978	---	28.6 B ON APR 10	0.025 ON SEP 6	42 600	1978
1979	209 AT 10:12 CST ON APR 22 *	164 ON APR 22	0 ON AUG 7	109 000	1979
1980	31.0B AT 07:20 CST ON APR 5	27.6 B ON APR 5	0.004E ON SEP 3	15 800	1980
1981	11.2 AT 11:57 CST ON MAY 30	10.7 ON MAY 30	0 ON AUG 23	21 600	1981
1982	23.9 AT 11:30 CST ON APR 18	20.3 ON APR 18	0 B ON MAR 1	29 600	1982
MEAN				51 800	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	1.69	0.246	0.048	0.170	0	0	0	---	---	0.265	1974
1975	---	---	0	1.78	0.281	0.050	0	0	0.001	0.068	---	---	0.269	1975
1976	---	---	1.45	1.86	0.020	0	0	0	0	0	---	---	0.413	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.070	0	0	0	0	0	0	---	---	0.009	1978
1979	---	---	0	0.801	0.004	0	0	0	0	0	---	---	0.099	1979
1980	---	---	0	0.001	0	0	0	0	0.452	0.015	---	---	0.057	1980
1981	---	0.238	0.056	0	0	0	0	0	0	0	---	---	0.007	1981
1982	---	---	0.011	0.582	0	0.014	0	0	0	0.013	---	---	0.076	1982
MEAN	---	0.238	0.169	0.754	0.061	0.012	0.019	0	0.050	0.011	---	---	0.133	MEAN

LOCATION - LAT 49 07 40 N DRAINAGE AREA, 104 km²
LONG 100 42 50 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.12 AND 0 m^3/s OCCURRED IN FEBRUARY

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	7.67 ON APR 11	0B ON MAR 1 *	5 610	1974
1975	---	8.75 ON APR 29	0B ON MAR 1	5 690	1975
1976	---	19.3 ON MAR 31 *	0B ON MAR 1	8 730	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0.665B ON APR 4	0B ON MAR 1	182	1978
1979	---	9.88 B ON APR 19	0B ON MAR 1	2 090	1979
1980	3.97 AT 20:21 CST ON SEP 13	3.33 ON SEP 14	0B ON MAR 1	1 210	1980
1981	---	0.500B ON MAR 1	0 ON MAR 22	151	1981
1982	9.87 AT 00:29 CST ON APR 13 *	5.82 ON APR 13	0B ON MAR 1	1 610	1982
				2 810	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	0.141	0.169	0.051	0	0.121	0.121	0	---	---	0.075	1965
1966	---	---	0.251	0.018	0.123	0.037	0.293	0	0	0	---	---	0.091	1966
1967	---	---	0.150	0.076	0.024	0	0	0	0	0	---	---	0.031	1967
1968	---	---	0.013	0	0	0	0	0.022	0.015	0	---	---	0.006	1968
1969	---	---	0	1.35	0.014	0	0.013	0	0	0	---	---	0.169	1969
1970	---	---	0.253	0.533	0.068	0	0	0	0	0	---	---	0.106	1970
1971	---	---	0	0.055	0	0.360	0.194	0	0	0	---	---	0.075	1971
1972	---	---	0.337	0.142	0.001	0.436	0	0.002	0	0	---	---	0.114	1972
1973	---	---	0.011	0	0	0.003	0	0	0	0	---	---	0.002	1973
MEAN	---	---	0.113	0.257	0.044	0.099	0.056	0.016	0.015	0	---	---	0.074	MEAN

LOCATION - LAT 49 07 06 N DRAINAGE AREA, 89.1 km²
LONG 100 41 20 W NATURAL FLOW

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	2.09 ON AUG 27	0 ON MAR 1 *	1 590	1965
1966	---	1.14 ON JUL 6	0B ON MAR 1	1 930	1966
1967	---	0.762B ON MAR 29	0B ON MAR 1	663	1967
1968	---	0.286 ON AUG 27	0B ON MAR 1	131	1968
1969	---	7.42 ON APR 10 *	0B ON MAR 1	3 570	1969
1970	---	3.11 ON MAR 28	0B ON MAR 1	2 240	1970
1971	---	2.73 ON JUN 15	0B ON MAR 1	1 590	1971
1972	---	3.68 ON JUN 15	0B ON MAR 1	2 410	1972
1973	---	0.159 ON MAR 12	0 ON MAR 1	37.0	1973
				1 570	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO. 05LH082

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	---	---	---	---	156	154	158	---	---	1923
1924	---	---	---	75.9	109	185	134	103	89.5	93.3	94.3	---	113	1924
1925	---	---	---	53.3	128	204	182	151	148	127	---	---	142	1925
1926	---	---	---	70.8	101	142	97.4	76.0	68.4	64.9	---	---	88.5	1926
1927	---	---	---	---	104	182	177	148	152	152	---	---	---	1927
1928	---	---	---	---	126	194	157	124	104	---	---	---	---	1928
MEAN	---	---	---	66.7	114	181	149	120	120	118	126	---	115	MEAN

LOCATION - LAT 51 48 50 N DRAINAGE AREA, 55 200 km²
LONG 99 32 00 W NATURAL FLOW

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO. 05LH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1923	---	---	---	---	1923
1924	---	213 ON JUN 5	63.1 ON APR 26	2 080 000	1924
1925	---	354 ON JUN 21 *	43.3B ON APR 1	2 630 000	1925
1926	---	215 ON JUN 7	41.9 ON OCT 7 *	1 640 000	1926
1927	---	221 ON JUN 9	---	---	1927
1928	---	249 ON JUN 8	---	---	1928
				2 120 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO. 05LH004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	94.3	---	---	---	1928
1929	---	---	---	---	80.8	115	91.7	61.2	40.5	37.4	---	---	---	1929
1930	---	---	---	---	69.8	80.9	63.5	47.3	40.5	---	---	---	---	1930
MEAN	---	---	---	---	75.3	98.0	77.6	54.3	40.5	65.9	---	---	---	MEAN

LOCATION - LAT 51 50 00 N DRAINAGE AREA, 55 200 km²
LONG 99 33 00 W NATURAL FLOW

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO. 05LH004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	102 ON JUN 15 *	---	---	1930
				---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1950	---	---	---	---	---	---	---	---	---	---	68.7	28.5	---	1950
1951	19.6	14.0	8.29	---	---	113	99.5	83.3	80.5	73.3	51.4	42.6	---	1951
1952	24.9	12.3	11.9	---	---	148	120	102	91.6	102	90.1	68.6	---	1952
1953	42.1	27.5	22.0	31.8	116	150	200	189	204	198	202	179	131	1953
1954	144	123	117	159	248	277	---	---	286	291	273	249	---	1954
1955	168	139	127	233	295	317	277	234	193	176	149	106 R	202 R	1955
1956	88.5 R	87.3 R	72.5 R	111	168	190	167	161	163	163	148	88.5	134 R	1956
1957	60.7	38.7	28.7	68.1	159	146	132	116	103	93.1	90.8	57.6	91.4	1957
1958	30.8	17.3	15.8	79.8	102	99.1	78.2	63.1	54.3	52.7	44.2	11.1	54.2	1958
1959	3.88	0.413	0.058	16.0	67.5	96.5	88.0	71.4	69.8	73.6	44.3	32.1	47.2	1959
1960	24.6	16.0	8.17	44.7	115	138	124	104	79.8	71.4	75.8	27.0	69.2	1960
1961	12.4	3.04	3.79	35.1	84.5	82.5	61.5	39.5	28.4	21.9	19.1	3.40	33.1	1961
1962	0.037	0	0	2.35	52.6	44.0	36.4	19.9	18.9	21.8	14.8	4.21	18.0	1962
1963	0.195	0.009	0.165	11.5	34.0	32.1	27.4	15.8	11.2	11.2	7.62	0.546	12.7	1963
1964	0.071	0.122	0.142	4.04	26.6	26.1	13.7	12.8	13.3	16.2	16.9	3.37	11.1	1964
1965	0.077	0.025	0	4.65	51.5	69.0	76.6	62.4	60.3	66.7	55.4	39.0	40.7	1965
1966	28.6	21.4	9.14	29.5	108	136	141	139	126	125	68.9	59.5	83.1	1966
1967	58.2	52.9	52.1	82.6	153	188	172	151	115	108	92.0	55.6	107	1967
1968	37.3	26.2	18.4	68.0	125	118	111	108	103	103	87.2	53.1	80.0	1968
1969	33.4	25.1	19.8	70.0	123	122	100	88.9	72.1	73.5	55.3	37.5	68.7	1969
1970	28.0	17.3	10.2	18.6	98.3	125	134	130	117	118	116	79.9	83.1	1970
1971	66.5	53.8	47.0	107	190	176	150	129	110	117	92.4	64.4	109	1971
1972	47.6	42.8	34.6	72.7	173	169	154	133	115	102	72.9	30.3	95.8	1972
1973	15.3	6.53	7.50	54.6	105	127	124	106	99.4	95.6	68.0	40.9	71.2	1973
1974	27.5	22.0	17.9	39.4	172	207	181	160	149	139	126	95.5	112	1974
1975	74.6	56.8	51.7	91.4	174	183	157	135	129	129	128	76.7	116	1975
1976	62.8	54.0	45.6	110	159	169	158	141	123	113	82.5	40.6	105	1976
1977	26.4	16.4	14.3	68.1	122	113	96.8	91.6	91.6	92.8	77.6	47.6	71.8	1977
1978	35.3	23.9	17.6	56.5	126	123	101	83.0	70.7	73.7	58.4	30.9	67.0	1978
1979	17.6	9.85	7.45	17.3	110	180	171	146	125	120	88.1	64.7	88.6	1979
1980	52.4	41.5	30.0	96.6	133	105	79.7	67.8	62.4	60.6	53.0	23.5	67.1	1980
1981	19.6	2.83	8.06	38.1	71.8	72.4	56.8	39.7	23.2	18.7	29.5	21.7	33.7	1981
1982	2.71	0.425	0.626	6.35	61.9	74.4	69.2	52.2	41.2	49.8	33.1	15.4	34.2	1982
MEAN	39.2 R	29.8 R	25.2 R	60.9	124	135	118	102	97.8	96.0	81.2	53.9 R	77.2	MEAN

LOCATION - LAT 51 51 10 N DRAINAGE AREA, 55 200 km²
LONG 99 32 50 W NATURAL FLOW

R - REVISED SINCE JAN 1980

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	---	---	---	1952
1953	---	265 ON SEP 3	19.3 B ON MAR 26	4 120 000	1953
1954	---	---	112 B ON APR 1	---	1954
1955	---	337 ON JUN 9 *	89.2 RB ON DEC 25	6 350 000R	1955
1956	---	224 ON MAY 30	59.5 RB ON MAR 31	4 240 000R	1956
1957	---	200 ON MAY 21	25.8 B ON MAR 22	2 880 000	1957
1958	---	178 ON MAY 26	5.78 B ON DEC 30	1 710 000	1958
1959	152 AT 14:30 CST ON JUN 28	132 ON JUN 28	0 B ON FEB 17 *	1 490 000	1959
1960	173 AT 15:00 CST ON JUN 1	153 ON JUN 14	7.08 B ON MAR 28	2 190 000	1960
1961	---	102 ON MAY 24	0.045B ON DEC 25	1 040 000	1961
1962	---	97.7E ON MAY 18	0 B ON JAN 30	569 000	1962
1963	80.7 ON MAY 20	64.0 ON MAY 18	0 B ON FEB 17	401 000	1963
1964	69.7 AT 13:50 CST ON MAY 19	44.5 ON MAY 11	0.059B ON JAN 7	352 000	1964
1965	129 AT 08:00 CST ON MAY 26	122 ON MAY 26	0 B ON MAR 4	1 280 000	1965
1966	177 AT 18:45 CST ON JUN 2	158 ON JUN 2	3.77 B ON MAR 31	2 620 000	1966
1967	246 AT 11:05 CST ON JUN 21	220 ON JUN 21	41.6 B ON DEC 31	3 380 000	1967
1968	209 R AT 17:15 CST ON MAY 15	187 ON MAY 15	15.8 B ON MAR 22	2 530 000	1968
1969	174 R AT 03:54 CST ON MAY 19	146 ON MAY 31	17.6 B ON APR 4	2 160 000	1969
1970	202 R AT 18:36 CST ON MAY 25	185 ON MAY 25	8.92 B ON APR 1	2 620 000	1970
1971	235 AT 13:47 CST ON MAY 29	219 ON MAY 10	44.7 B ON MAR 25	3 430 000	1971
1972	236 AT 16:19 CST ON JUN 14	203 ON JUN 14	22.9 B ON DEC 27	3 030 000	1972
1973	173 AT 20:54 CST ON JUN 19	162 ON JUN 19	2.97 B ON MAR 2	2 250 000	1973
1974	261 AT 20:21 CST ON JUN 14 *	227 ON JUN 14	9.15 B ON APR 15	3 530 000	1974
1975	217 AT 22:51 CST ON JUN 4	206 ON JUN 5	50.7 B ON MAR 15	3 650 000	1975
1976	212 AT 19:38 CST ON JUN 13	199 ON JUN 14	34.8 B ON DEC 28	3 320 000	1976
1977	170 AT 18:16 CST ON JUN 30	136 ON MAY 18	13.0 B ON MAR 8	2 260 000	1977
1978	153 AT 17:00 CST ON MAY 31	150 ON MAY 31	15.7 B ON MAR 26	2 110 000	1978
1979	229 AT 23:30 CST ON JUN 21	206 ON JUN 21	5.29 B ON APR 11	2 790 000	1979
1980	155 E ON MAY 5	155 E ON MAY 5	12.9 B ON DEC 31	2 120 000	1980
1981	135 AT 04:15 CST ON JUN 18	103 ON JUN 18	0.173B ON FEB 16	1 060 000	1981
1982	125 AT 04:53 CST ON JUN 7	109 ON JUN 7	0.360B ON FEB 20	1 080 000	1982
				2 430 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	1.72	1.34	1.11	---	---	8.35	5.94	4.50	10.1	8.23	5.47	1.97	---	1977
1978	0.976	0.690	0.500	0.509	48.1	17.9	35.1	48.1	47.9	33.3	10.3	3.64	20.8	1978
1979	1.69	0.976	0.676	0.857	24.0	57.9	61.7	18.7	14.5	22.1	6.52	2.81	17.8	1979
1980	1.24	0.890	0.768	20.2	42.2	43.5	50.4	54.1	44.9	26.5	3.54	2.67	24.3	1980
1981	2.14	1.60	1.18	0.915	51.1	34.0	16.3	16.9	8.66	20.6	4.70	2.09	13.5	1981
1982	1.64	1.23	0.830	1.33	82.5	59.6	18.1	18.3	19.1	19.4	7.53	4.38	19.6	1982
MEAN	1.57	1.12	0.844	4.76	49.6	36.9	31.3	26.8	24.2	21.7	6.34	2.93	19.2	MEAN

LOCATION - LAT 56 56 20 N DRAINAGE AREA, 2 280 km²
LONG 93 19 45 W NATURAL FLOW

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	---	---	---	1977
1978	---	114 ON AUG 16	0.453B ON MAR 23	655 000	1978
1979	128 AT 23:17 CST ON JUL 17 *	124 ON JUL 17	0.612B ON MAR 28	561 000	1979
1980	---	134 ON JUL 28	0.736B ON MAR 22	769 000	1980
1981	---	114B ON MAY 21	0.850B ON APR 12	424 000	1981
1982	---	213B ON MAY 5 *	0.283B ON APR 25 *	618 000	1982
				605 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO. 05LL001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	1.72	0.561	---	---	---	---	---	---	---	---	1962
1963	---	---	0.285	0.600	0.551	0.834	0.241	0.160	0.059	0	---	---	0.339	1963
1964	---	---	0.008	0.812	0.379	0.331	0.147	0.080	0.513	0.099	---	---	0.293	1964
1965	---	---	0.068	1.23	0.610	0.485	0.250	0.060	0.323	0.198	---	---	0.400	1965
1966	---	---	0.827	0.871	0.653	0.102	0.060	0.072	0.012	0.023	---	---	0.328	1966
1967	---	---	0.037	0.934	0.316	0.123	0.051	0.035	0.028	0.039	---	---	0.193	1967
1968	---	---	0.193	0.409	0.337	0.239	0.087	0.211	0.425	0.139	---	---	0.254	1968
1969	---	---	0.003	1.08	0.481	0.318	0.442	0.113	0.093	0.178	---	---	0.336	1969
1970	---	---	0.018	1.67	1.09	0.324	0.245	0.047	0.097	0.079	---	---	0.443	1970
1971	---	---	0.023	1.62	0.517	0.443	0.328	0.097	0.206	0.425	---	---	0.454	1971
1972	---	---	0.320	0.810	0.492	0.368	0.064	0.123	0.108	0.071	---	---	0.293	1972
1973	---	---	0.171	0.181	0.302	0.356	0.319	0.152	0.146	0.142	---	---	0.221	1973
1974	---	---	0.051	2.08	1.08	0.157	0.005	0.035	0.130	0.127	---	---	0.454	1974
1975	---	---	0.064	1.05	0.525	0.159	0.032	0.231	0.335	0.197	---	---	0.322	1975
1976	---	---	0.156	1.92	0.180	0.118	0.026	0.033	0.005	0.069	---	---	0.309	1976
1977	---	---	0.015	0.237	0.149	0.090	0.079	0.049	0.109	0.099	---	---	0.103	1977
1978	---	---	0.088	0.733	0.273	0.077	0.112	0.017	0.101	0.074	---	---	0.183	1978
1979	---	---	0.087	1.31	1.13	0.323	0.062	0.024	0.024	0.054	---	---	0.375	1979
1980	---	---	0.042	0.612	0.081	0.010	0.019	0.235	0.045	0.218	---	---	0.157	1980
1981	---	0.236	0.200	0.157	0.146	0.304	0.046	0.092	0.122	0.168	---	---	0.154	1981
1982	---	---	0.031	0.513	0.244	0.203	0.591	0.036	0.026	0.202	---	---	0.230	1982
MEAN	---	0.236	0.128	0.979	0.481	0.268	0.160	0.095	0.145	0.130	---	---	0.292	MEAN

LOCATION - LAT 49 58 00 N DRAINAGE AREA, 156 km²
LONG 98 56 50 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGES OF .633 AND 0 m^3/s OCCURRED IN FEB

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO. 05LL001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	9.60 ON APR 17	---	---	1962
1963	---	2.94 ON JUN 11	0 B ON MAR 1 *	7 190	1963
1964	---	5.66 ON SEP 2	0 ON AUG 17	6 190	1964
1965	---	7.28 ON APR 13	0 ON AUG 16	8 450	1965
1966	---	3.23 B ON MAR 31	0.003 ON JUL 21	6 930	1966
1967	---	1.86 B ON APR 15	0 ON AUG 4	4 090	1967
1968	---	1.13 B ON MAR 27	0 ON JUL 15	5 370	1968
1969	---	8.30 ON APR 12	0.003B ON MAR 1	7 110	1969
1970	---	15.6 ON APR 26 *	0 ON AUG 23	9 390	1970
1971	---	6.57 B ON APR 8	0.006 ON AUG 31	9 620	1971
1972	---	1.59 B ON APR 12	0 ON OCT 15	6 200	1972
1973	1.64 AT 17:57 CST ON JUL 26	1.29 ON JUL 26	0.037 ON AUG 30	4 680	1973
1974	9.23 B AT 19:00 CST ON APR 17 *	7.50 ON APR 18	0 ON JUL 3	9 620	1974
1975	3.31 B AT 14:00 CST ON APR 16	2.31 ON APR 29	0.003 ON AUG 6	6 810	1975
1976	---	4.79 ON APR 7	0 ON JUL 29	6 540	1976
1977	0.677 AT 23:35 CST ON MAY 19	0.510 ON MAY 20	0 B ON MAR 1	2 180	1977
1978	1.28 B AT 21:58 CST ON APR 12	1.26 B ON APR 10	0 ON AUG 10	3 870	1978
1979	7.76 AT 16:49 CST ON APR 21	5.77 ON APR 21	0 ON AUG 27	7 940	1979
1980	---	1.96 B ON APR 6	0 ON JUN 4	3 320	1980
1981	---	0.633B ON MAR 30	0 ON JUL 28	3 260	1981
1982	3.81 AT 00:49 CST ON JUL 19	3.69 ON JUL 18	0 B ON MAR 1	4 870	1982
				6 180	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHIRLPOOL RIVER AT DANVERS - STATION NO. 05MF009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.432	0.272	0.064	0.171	0.657	0.114	---	---	1915
1916	---	---	---	3.53	2.57	2.39	1.93	0.376	0.244	0.486	0.572	0.283	---	1916
1917	---	---	---	1.42	2.17	0.295	0.343	0.122	0.452	0.104	0.126	---	---	1917
1918	---	---	---	0.729	0.749	0.496	0.184	0.217	0.810	0.172	0.146	0.085	---	1918
1919	0.057	0.028	0.057	2.55	1.05	0.255	0.413	0.174	0.523	---	---	---	---	1919
MEAN	0.057	0.028	0.057	2.06	1.63	0.774	0.628	0.191	0.440	0.355	0.240	0.184	---	MEAN

LOCATION - LAT 50 33 50 N   DRAINAGE AREA, 207 km^2
LONG 99 53 30 W   NATURAL FLOW

WHIRLPOOL RIVER AT DANVERS - STATION NO. 05MF009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	---	---	---	1916
1917	---	---	---	---	1917
1918	---	2.75 ON MAY 27	---	---	1918
1919	---	4.81 ON APR 11 *	0.028B ON FEB 1 *	---	1919
				---	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	56.5	26.8	28.1	21.7	49.1	46.2 R	28.3	2.83	---	1912
1913	---	---	---	45.3	23.7	11.9	16.8	11.1 R	6.49	16.9	6.51	1.42	---	1913
1914	0.425	0.283	0.566	12.7	24.2	30.5	20.1	3.14 R	4.66 R	17.0	7.76	2.10 R	10.3 R	1914
1915	0.532R	0.342R	0.683R	13.1 R	31.4	19.7	12.6	2.36	1.26	7.56	5.94	2.83	8.24R	1915
1916	0.999	0.615	0.443	58.0	56.9	22.3	30.2	11.5	7.96	9.36	10.1	1.42	17.5	1916
1917	0.670	0.622	0.466	20.3	23.7	6.20	4.85	5.56	4.62	1.99	1.54	0.537R	5.94R	1917
1918	---	---	---	8.78	9.37	18.1	6.00	3.99	1.29	2.97	15.3	2.56	---	1918
1919	0.657	0.531	2.84	27.6	16.9	8.50	58.7	7.04	11.3	7.80	3.23	1.05	12.3	1919
1920	0.207	0.165	0.764	21.2	36.5	44.3	4.95	0.278	0.542	4.75	3.95	1.24	9.92	1920
1921	0.941	1.01	1.32	54.0	34.4	15.8	18.8	25.3	20.8	12.8	5.88	1.66	16.1	1921
1922	0.839	0.634	0.848	25.1	79.2	27.8	14.3	14.7	18.9	9.13	18.1	---	---	1922
1923	---	---	---	---	67.7	21.2	13.5	10.2	6.96	7.05	3.40	---	---	1923
1924	---	---	---	---	50.6	20.2	7.87	11.8	3.36	9.66	---	---	---	1924
1925	---	---	---	42.5	30.5	93.0	33.6	11.8	11.2	18.0	---	---	---	1925
1926	---	---	---	8.76	8.79	35.2	30.4	14.0	20.5	39.3	18.4	---	---	1926
1927	---	---	---	---	122	40.2	19.2	4.95	7.83	17.0	15.6	---	---	1927
1928	---	---	---	---	13.7	48.7	66.0	22.7	9.11	5.67	4.26	3.82	---	1928
1929	2.89	3.40	5.10	7.51	8.87	14.0	9.63	2.75	3.09	3.52	---	---	---	1929
1930	---	---	---	---	60.2	16.7	11.5	1.51	1.45	3.12	---	---	---	1930
1931	---	---	---	29.2	23.3	7.89	1.80	0.884	1.41	2.66	4.28	---	---	1931
1932	---	---	---	---	25.4	3.15	2.29	1.16	0.568	1.88	---	---	---	1932
1933	---	---	---	---	35.1	19.4	0.635	0.478	0.631	0.657	---	---	---	1933
1934	---	---	---	---	10.5	3.47	0.914	0.629	0.781	1.11	---	---	---	1934
1935	---	---	---	---	20.4	8.10	3.88	1.27	1.23	2.28	---	---	---	1935
1936	---	---	---	---	14.9	3.05	0.711	0.520	0.977	---	---	---	---	1936
MEAN	0.907R	0.845R	1.45 R	26.7 R	35.4	22.7	16.7	7.65 R	7.84 R	10.3 R	9.53	1.95 R	11.5	MEAN

LOCATION - LAT 49 57 15 N   DRAINAGE AREA, 3 730 km^2
LONG 95 58 00 W   NATURAL FLOW

R - REVISED SINCE JAN 1980

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1912	---	---	---	---	1912
1913	---	80.7 ON APR 12	---	---	1913
1914	---	63.7 ON JUN 4	0.283B ON FEB 1	326 000R	1914
1915	---	48.7 ON MAY 12	0.283RB ON FEB 15	260 000R	1915
1916	---	146 ON APR 21	0.396 ON MAR 22	553 000	1916
1917	---	42.5 ON APR 23	0.113B ON DEC 29	188 000R	1917
1918	---	43.6 ON JUN 4	---	---	1918
1919	---	150 ON JUL 4	0.311B ON FEB 2	387 000	1919
1920	---	81.8 ON JUN 1	0.028 ON AUG 28 *	313 000	1920
1921	---	85.8B ON APR 14	0.793B ON JAN 1	508 000	1921
1922	---	130 ON MAY 20	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	122 ON JUN 6	---	---	1925
1926	---	101 ON JUN 25	---	---	1926
1927	---	164 ON MAY 12 *	---	---	1927
1928	---	107 ON JUL 11	---	---	1928
1929	---	25.0 ON MAY 31	---	---	1929
1930	---	125 ON MAY 15	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	85.2B ON APR 24	---	---	1933
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
				362 000R	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO. 05PH006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	---	0.139	0.063	0.056	0.133	0.272	0.380	---	---	---	1973
1974	---	---	0	0.743	3.20	3.08	1.51	1.21	1.37	1.34	---	---	1.55	1974
1975	---	---	1.37	1.35	1.68	1.29	1.02	0.580	0.478	0.481	---	---	1.03	1975
1976	---	---	0.685	0.880	0.700	0.424	0.230	0.106	0.051	0.027	---	---	0.388	1976
1977	---	---	0.004	0.060	0.104	0.058	0.045	0.021	0.024	0.065	---	---	0.048	1977
1978	---	---	0	0.301	0.561	0.280	0.154	0.064	0.030	0.002	---	---	0.174	1978
1979	---	---	0	0.112	0.401	0.331	0.130	0.066	0.056	0.032	---	---	0.141	1979
1980	---	---	0.009	0.084	0.075	0.013	0.004	0.011	0.013	0.005	---	---	0.027	1980
MEAN	---	---	0.295	0.505	0.858	0.692	0.394	0.274	0.287	0.292	---	---	0.480	MEAN

LOCATION - LAT 49 16 50 N DRAINAGE AREA, 285 km²
LONG 95 36 40 W REGULATED

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO. 05PH006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	---	---	---	---	1973
1974	4.30 AT 12:00 CST ON MAY 23 *	4.19 ON MAY 23 *	0 B ON MAR 1 *	32 900	1974
1975	2.06 AT 03:25 CST ON MAY 5	2.03 ON MAY 4	0.422 ON OCT 13	21 800	1975
1976	1.45 AT 18:32 CST ON APR 17	1.16 ON APR 17	0.003B ON OCT 30	8 200	1976
1977	0.311 AT 16:21 CST ON MAY 5	0.170 ON MAY 16	0 B ON MAR 1	1 810	1977
1978	0.688B AT 09:28 CST ON APR 20	0.674 ON APR 27	0 B ON MAR 1	3 670	1978
1979	0.516 AT 05:00 CST ON JUN 2	0.470 ON MAY 11	0 B ON MAR 1	2 980	1979
1980	0.191 AT 23:59 CST ON APR 23	0.189 ON APR 23	0 ON JUL 11	567	1980
				10 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO. 05PH003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	---	13.9	2.72	1.60	19.3	6.80	---	---	---	1942
1943	---	---	---	32.0	40.5	64.7	32.4	6.97	5.28	3.26	---	---	---	1943
1944	---	---	---	---	15.7	59.7	28.5	18.2	26.8	10.7	22.6	---	---	1944
1945	---	---	---	57.7	36.6	24.1	19.2	3.21	16.5	14.0	---	---	---	1945
1946	---	---	---	33.7	26.1	6.74	8.91	0.600	2.77	9.87	---	---	---	1946
1947	---	---	---	---	38.6	45.5	14.4	20.3	11.7	22.6	---	---	---	1947
1948	---	---	---	47.2	53.7	10.1	19.2	23.8	3.64	1.26	---	---	---	1948
1949	---	---	0 R	24.7 R	25.9	6.14	1.86	7.42	2.78	23.6	26.7	---	---	1949
1950	---	---	---	---	144	43.6	28.0	4.42	18.8	36.0	---	---	---	1950
1951	---	---	2.46 R	29.0	37.0	14.2	2.17	1.14	4.34	5.85	---	---	---	1951
1952	---	---	0.186R	4.98	1.33	1.12	4.56	1.06	0.360	0.419	---	---	---	1952
1953	---	---	0.664R	7.63	7.18	24.3	12.1	1.20	1.48	1.59	---	---	---	1953
1954	---	---	0.085R	23.7	48.6	37.0	7.93	1.07	7.81	9.14	6.71	---	---	1954
1955	---	---	---	55.3	31.3	26.4	5.55	0.348	0.288	0.961	---	---	---	1955
1956	---	---	0.283	16.0	45.5	18.5	21.3	10.9	27.9	10.7	26.5	2.57	---	1956
1957	1.25	1.01	3.75	37.1	42.8	45.3	24.1	2.33	1.45	1.87	1.72	0.429	13.6	1957
1958	0.657	0.827	1.75	3.22	2.47	2.03	22.5	6.20	1.27	3.43	9.18	2.89	4.74	1958
1959	0.263	0.347	0.452	27.8	47.6	49.1	13.5	15.5	29.8	60.5	16.3	3.62	22.1	1959
1960	1.95	0.921	0.987	67.5	38.0	23.8	7.12	2.35	2.26	1.03	4.53	0.991	12.6	1960
1961	0.221	0.310	0.979	11.0	17.0	5.10	0.700	0.343	0.284	2.45	1.74	0.447	3.40	1961
1962	0.305	0.292	0.214	13.5	70.9	67.1	31.9	38.1	13.7	8.66	9.99	4.81	21.7	1962
1963	1.35	1.15	3.56	46.6	45.7	58.4	16.8	7.55	1.38	0.699	0.530	0.333	15.3	1963
1964	0.224	0.159	0.321	21.6	44.4	29.1	12.8	5.04	9.36	25.4	8.13	2.39	13.3	1964
1965	1.20	0.701	0.600	46.3	65.1	36.8	36.4	7.12	11.4	26.1	18.4	13.9	22.1	1965
1966	7.21	2.46	3.52	85.7	101	33.9	34.2	5.13	11.5	7.63	5.22	2.35	25.1	1966
1967	1.81	0.886	3.17	75.2	51.2	15.3	8.22	5.12	0.453	0.475	0.293	0.277	13.5	1967
1968	0.444	0.208	2.55	17.1	19.2	32.6	23.9	13.1	17.3	14.5	9.82	2.34	12.8	1968
1969	1.21	1.78	1.92	51.3	36.2	21.3	15.3	5.49	3.43	8.73	4.09	1.30	12.7	1969
1970	0.806	0.716	0.640	28.4	108	67.3	11.3	2.62	5.15	7.90	15.2	2.08	20.9	1970
1971	1.26	1.01	1.21	33.8	28.8	20.2	11.3	5.08	1.34	2.47	9.63	1.98	9.84	1971
1972	0.485	0.356	1.09	24.8	31.3	7.21	1.13	0.475	1.39	3.76	4.30	0.360	6.39	1972
1973	0.216	0.159	2.73	4.17	5.73	37.0	20.1	19.2	18.3	44.4	15.4	7.00	14.6	1973
1974	1.48	0.646	0.577	89.2	134	40.6	3.44	6.33	9.05	8.43	4.73	1.76	25.1	1974
1975	1.93	1.50	1.77	22.8	43.4	29.7	21.8	1.91	1.61	1.94	1.90	0.834	11.0	1975
1976	0.557	0.443	0.832	40.2	21.3	17.6	8.18	0.538	0.848	1.53	0.124	0.088	7.65	1976
1977	0.202	0.251	0.446	1.39	1.89	7.34	4.43	0.767	7.08	10.2	5.55	2.80	3.54	1977
1978	1.05	0.354	0.385	53.1	41.4	11.1	12.2	2.20	0.668	0.886	0.639	0.385	10.4	1978
1979	0.304	0.252	0.275	32.3	58.1	25.5	2.13	0.312	0.258	0.502	0.583	0.368	10.1	1979
1980	0.440	0.334	0.143	8.15	3.53	0.486	0.246	0.490	1.99	4.62	2.97	0.474	1.98	1980
1981	0.328	0.748	1.05	1.92	3.09	16.7	6.55	1.53	20.5	24.6	13.6	3.62	7.85	1981
1982	0.333	0.162	0.496	34.4	33.7	20.7	37.7	14.1	2.86	19.3	8.20	1.45	14.5	1982
MEAN	1.06	0.695	1.22 R	32.7 R	41.2	27.3	14.5	6.81	7.91	10.9	8.51	2.31	13.0	MEAN

LOCATION - LAT 49 56 20 N LONG 95 57 20 W DRAINAGE AREA, 3 700 km² NATURAL FLOW

R - REVISED SINCE JAN 1980

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO. 05PH003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	94.6 ON JUN 17	---	---	1943
1944	---	79.6 ON JUN 19	---	---	1944
1945	---	89.2 ON MAR 28	---	---	1945
1946	---	---	---	---	1946
1947	---	73.1 ON JUN 14	---	---	1947
1948	---	132 ON APR 28	---	---	1948
1949	---	47.0 ON OCT 23	0 RB ON MAR 1 *	---	1949
1950	---	212 ON MAY 13	---	---	1950
1951	---	55.8 ON MAY 4	---	---	1951
1952	---	8.89 ON JUL 5	---	---	1952
1953	---	35.7 ON JUN 7	---	---	1953
1954	---	92.9 ON MAY 2	---	---	1954
1955	---	86.7 ON APR 23	---	---	1955
1956	---	64.0 ON MAY 14	---	---	1956
1957	---	89.5 ON APR 26	0.481B ON DEC 31	430 000	1957
1958	---	34.5 ON JUL 25	0.396B ON JAN 7	150 000	1958
1959	---	121 ON JUN 12	0.142B ON JAN 22	697 000	1959
1960	---	172 ON APR 17	0.541B ON DEC 26	397 000	1960
1961	---	22.4 ON MAY 14	0.023B ON JAN 25	107 000	1961
1962	---	166 ON MAY 26	0.127B ON FEB 27	686 000	1962
1963	---	81.8 B ON APR 9	0.272B ON DEC 30	483 000	1963
1964	---	77.0 ON MAY 9	0.127B ON FEB 20	420 000	1964
1965	---	100 B ON APR 15	0.340B ON FEB 25	697 000	1965
1966	---	140 ON APR 18	1.72 B ON DEC 27	791 000	1966
1967	---	117 ON APR 25	0.142B ON NOV 26	427 000	1967
1968	---	68.2 ON JUN 13	0.099B ON FEB 20	403 000	1968
1969	---	97.4 B ON APR 12	0.651B ON JAN 3	400 000	1969
1970	---	137 A ON MAY 3	0.493B ON MAR 14	659 000	1970
1971	---	53.5 ON APR 21	0.255 ON APR 5	310 000	1971
1972	59.7B AT 13:10 CST ON APR 18	50.1 ON APR 29	0.159B ON MAR 15	202 000	1972
1973	---	101 ON JUN 20	0.122B ON FEB 27	460 000	1973
1974	239 AT 01:02 CST ON APR 27 *	237 ON APR 24 *	0.493B ON MAR 30	791 000	1974
1975	64.0 AT 11:15 CST ON JUL 3	63.7 ON JUL 3	0.603B ON DEC 29	346 000	1975
1976	54.9 AT 20:33 CST ON APR 20	54.7 ON APR 20	0.068B ON DEC 5	242 000	1976
1977	---	22.8 ON JUN 20	0.144B ON JAN 1	112 000	1977
1978	---	105 ON APR 21	0.303B ON FEB 17	328 000	1978
1979	---	89.0 B ON APR 21	0.149 ON AUG 24	319 000	1979
1980	---	12.9 B ON APR 8	0.107 ON AUG 3	62 700	1980
1981	53.5 AT 12:00 CST ON SEP 10	52.9 ON SEP 10	0.009B ON FEB 12	248 000	1981
1982	117 B AT 21:09 CST ON APR 18	92.1 B ON APR 18	0.009B ON FEB 4	459 000	1982
				409 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 1980

WHITEMUD RIVER ABOVE NEEPAWA RESERVOIR - STATION NO. 05LL013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.300	0.880	0.623	0.309	0.118	0.070	0.170	0.280	---	---	0.342	1961
1962	---	---	0	1.42	1.02	0.521	0.314	0.285	0.184	0.219	---	---	0.493	1962
1963	---	---	0.083	0.382	0.318	0.659	0.506	0.266	0.215	0.234	---	---	0.332	1963
1964	---	---	0.023	0.800	0.560	0.438	0.305	0.153	0.234	0.224	---	---	0.340	1964
1965	---	---	0.241	2.26	0.644	0.450	0.297	0.258	0.471	0.323	---	---	0.613	1965
1966	---	---	0.373	1.38	0.718	0.397	0.244	0.159	0.128	0.216	---	---	0.449	1966
1967	---	---	0.159	1.31	0.808	0.350	0.253	0.158	0.073	0.270	---	---	0.421	1967
1968	---	---	0.289	0.596	0.475	0.244	0.240	0.376	0.368	0.289	---	---	0.359	1968
1969	---	---	0.215	3.30	1.08	0.572	0.898	0.704	0.464	0.559	---	---	0.968	1969
1970	---	---	0.210	3.04	4.30	1.13	0.846	0.631	0.539	0.472	---	---	1.39	1970
1971	---	---	0.275	1.18	0.919	1.75	2.26	0.650	0.225	0.569	---	---	0.978	1971
1972	---	---	0.306	2.73	1.27	0.644	0.266	0.143	0.202	0.454	---	---	0.746	1972
1973	---	---	0.404	0.432	0.384	0.351	0.246	0.325	0.338	0.402	---	---	0.360	1973
1974	---	---	0.238	3.92	2.32	0.866	0.206	0.261	0.374	0.402	---	---	1.07	1974
1975	---	---	0.382	1.34	1.47	0.703	0.427	0.681	0.712	0.505	---	---	0.775	1975
1976	---	---	0.352	4.10	0.766	0.625	0.236	0.130	0.122	0.329	---	---	0.822	1976
1977	---	---	0.445	0.497	0.695	0.553	0.805	0.305	0.548	0.358	---	---	0.526	1977
1978	---	---	0.293	1.52	0.628	0.368	0.188	0.128	0.251	0.263	---	---	0.452	1978
1979	---	---	0.353	3.67	2.73	0.392	0.101	0.018	0.095	0.353	---	---	0.959	1979
1980	---	---	0.240	0.830	0.380	0.169	0.121	0.365	0.227	0.300	---	---	0.328	1980
1981	---	---	0.480	0.394	0.330	0.259	0.130	0.272	0.196	0.367	---	---	0.304	1981
1982	---	---	0.155	1.20	0.375	0.292	0.360	0.100	0.374	0.438	---	---	0.408	1982
MEAN	---	---	0.264	1.69	1.04	0.547	0.426	0.293	0.296	0.356	---	---	0.611	MEAN

LOCATION - LAT 50 10 54 N LONG 99 23 55 W DRAINAGE AREA, 414 km^2 NATURAL FLOW

WHITEMUD RIVER ABOVE NEEPAWA RESERVOIR - STATION NO. 05LL013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	1.30 ON APR 13	0.051 ON AUG 19	7 250	1961
1962	---	4.73 ON APR 23	0 B ON MAR 1 *	10 400	1962
1963	---	1.10 ON JUN 5	0.003B ON MAR 1	7 020	1963
1964	---	1.83 ON APR 15	0.020B ON MAR 1	7 200	1964
1965	---	9.85 ON APR 16	0.207 ON JUL 10	13 000	1965
1966	---	3.37 ON APR 6	0.045 ON AUG 28	9 510	1966
1967	---	6.20 ON APR 22	0.057 ON SEP 17	8 910	1967
1968	---	1.05 ON APR 21	0.096 ON AUG 14	7 610	1968
1969	---	12.7 ON APR 16	0.190B ON MAR 28	20 500	1969
1970	---	20.1 ON APR 29 *	0.210B ON MAR 1	29 500	1970
1971	---	2.92 ON JUN 23	0.093 ON SEP 4	20 700	1971
1972	---	7.11 B ON APR 16	0.122 ON AUG 5	15 800	1972
1973	---	0.668B ON MAR 21	0.170 ON JUL 11	7 630	1973
1974	21.3 AT 12:53 CST ON APR 21 *	20.1 ON APR 21	0.147 ON JUL 22	22 600	1974
1975	3.45 B AT 09:05 CST ON APR 23	3.26 B ON APR 23	0.334 ON JUL 16	16 400	1975
1976	17.5 B AT 20:34 CST ON APR 9	16.3 B ON APR 9	0.054 ON AUG 27	17 400	1976
1977	2.47 AT 21:34 CST ON JUL 11	2.30 ON JUL 14	0.068 ON AUG 28	11 100	1977
1978	5.04 B AT 13:15 CST ON APR 15	3.31 ON APR 16	0.031 ON SEP 10	9 560	1978
1979	20.4 B AT 17:12 CST ON APR 25	18.9 B ON APR 25	0 ON AUG 7	20 300	1979
1980	---	2.27 B ON APR 7	0.003 ON AUG 1	6 940	1980
1981	0.808 AT 07:23 CST ON MAY 8	0.700B ON MAR 29	0.063 ON JUL 14	6 430	1981
1982	3.83 AT 13:30 CST ON APR 17	3.64 B ON APR 18	0.024 ON AUG 13	8 640	1982
				12 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	4.77	29.9	19.6	11.3	3.78	1.70	1.09	3.43	---	---	---	1972
1973	---	---	4.00	4.66	5.81	4.12	1.72	2.14	3.54	4.39	1.95	1.27	---	1973
1974	0.883	0.301	0.437	57.7	53.7	23.3	6.21	1.21	1.08	1.99	2.45	1.17	12.5	1974
1975	0.801	0.574	0.742	18.2	22.3	6.63	1.39	4.91	14.4	14.0	12.0	4.95	8.43	1975
1976	3.35	2.39	1.74	112	43.2	9.90	2.46	0.786	0.606	3.24	1.20	0.214	15.0	1976
1977	0.187	0.257	1.33	4.80	5.75	3.54	3.63	1.40	3.55	2.60	1.75	0.828	2.48	1977
1978	0.793	0.623	1.13	24.6	8.77	5.49	1.56	0.869	0.824	2.67	4.26	1.50	4.41	1978
1979	0.753	0.481	0.630	56.5	93.4	31.8	9.39	2.53	1.35	1.54	1.89	1.39	16.9	1979
1980	0.765	0.884	0.806	9.75	3.16	1.13	0.632	4.12	1.81	3.55	2.84	1.49	2.57	1980
1981	0.511	1.34	3.15	5.30	3.74	5.85	0.921	0.750	0.662	2.45	2.39	0.948	2.33	1981
1982	0.185	0.181	0.526	15.0	10.2	4.29	4.37	1.44	0.684	3.13	2.09	0.720	3.57	1982
MEAN	0.914	0.781	1.75	30.8	24.5	9.76	3.28	1.99	2.69	3.91	3.28	1.45	7.58	MEAN

LOCATION - LAT 50 08 03 N DRAINAGE AREA, 6 320 km^2
LONG 98 35 00 W REGULATED SINCE 1960

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	15.5 AT 00:43 CST ON SEP 8	14.6 ON SEP 8	---	---	1973
1974	---	244 A ON APR 20	0.221B ON FEB 18	395 000	1974
1975	63.1 AT 05:39 CST ON MAY 3	62.0 ON MAY 3	0.518B ON FEB 1	266 000	1975
1976	179 AT 22:27 CST ON APR 20	177 ON APR 21	0.105B ON DEC 9	475 000	1976
1977	13.3 AT 23:30 CST ON MAY 22	13.2 ON MAY 23	0.153B ON JAN 27	78 100	1977
1978	---	40.5B ON APR 16	0.436B ON JAN 31	139 000	1978
1979	314 AT 07:30 CST ON APR 25 *	305 ON APR 25 *	0.376B ON FEB 27	531 000	1979
1980	21.3 AT 10:43 CST ON AUG 21	17.6B ON APR 11	0.236 ON AUG 2	81 400	1980
1981	13.0B AT 08:15 CST ON APR 6	12.3B ON APR 6	0.209 ON SEP 21	73 500	1981
1982	---	53.9B ON APR 19	0.064B ON JAN 25 *	113 000	1982
				239 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1943	---	---	1.88	9.79	1.81	3.79	2.76	0.870	0.117	0.239	---	---	2.74	1943
1944	---	---	---	1.03	1.27	3.02	2.38	0.273	0.362	0.402	0.484	---	1.25	1944
1945	---	---	---	2.81	2.02	0.990	0.722	0.116	0.102	0.271	---	---	1.08	1945
1946	---	---	---	5.79	1.13	0.462	0.402	0.059	0.059	0.406	---	---	1.17	1946
1947	---	---	---	8.97	2.42	1.81	2.24	0.362	0.106	0.158	---	---	2.28	1947
1948	---	---	---	9.72	3.99	0.498	0.293	0.428	0.087	0.174	---	---	2.15	1948
1949	---	---	---	7.82	1.36	0.754	0.346	0.464	0.038	0.287	0.606	---	1.56	1949
1950	---	---	---	3.12	6.54	3.70	2.98	0.794	0.394	0.405	---	---	2.57	1950
1951	---	---	---	5.28	2.47	1.52	0.290	0.260	0.292	0.666	---	---	1.52	1951
1952	---	---	---	3.59	0.840	1.56	2.23	0.348	1.26	0.333	0.343	---	1.44	1952
1953	---	---	---	10.3	4.51	6.41	1.07	0.386	0.254	0.388	0.243	---	3.42	1953
1954	---	---	0.057	7.45	2.69	6.48	1.98	0.262	1.05	1.97	0.801	---	3.10	1954
1955	---	---	0.225	13.9	4.65	3.38	2.26	0.297	0.292	0.579	---	---	3.60	1955
1956	---	---	0.085	12.9	16.0	8.00	7.77	0.933	0.035	1.37	---	---	6.76	1956
1957	---	---	3.30	6.18	3.25	2.08	1.48	0.614	0.441	0.637	---	---	2.09	1957
MEAN	---	---	1.11	7.24	3.66	2.96	2.08	0.431	0.353	0.552	0.495	---	2.44	MEAN

LOCATION - LAT 50 13 05 N DRAINAGE AREA, 1 880 km^2
LONG 98 55 26 W NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945 AND 1957

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1943	---	19.5 ON APR 10	0.068 ON SEP 29	50 700	1943
1944	---	8.69 ON JUL 1	0.085B ON APR 1	23 000	1944
1945	---	13.7 ON APR 1	0.023 ON SEP 8	18 500	1945
1946	---	27.2 ON APR 1	0 ON SEP 17 *	21 700	1946
1947	---	25.0 B ON APR 15	0.040 ON AUG 13	42 100	1947
1948	---	32.3 B ON APR 21 *	0.008 ON SEP 24	39 800	1948
1949	---	16.3 B ON APR 10	0.003 ON SEP 11	28 900	1949
1950	---	13.6 ON MAY 13	0.266 ON OCT 5	47 400	1950
1951	---	12.6 B ON APR 8	0.142 ON AUG 11	28 000	1951
1952	---	10.9 ON JUL 2	0.198 ON AUG 19	26 700	1952
1953	---	29.4 B ON APR 7	0.198 ON SEP 8	63 200	1953
1954	---	24.7 B ON APR 15	0.057B ON APR 1	57 300	1954
1955	---	24.4 B ON APR 9	0.085 ON AUG 20	66 400	1955
1956	---	31.7 ON APR 28	0.085 ON AUG 23	125 000	1956
1957	---	16.2 ON APR 26	0.142 ON OCT 1	38 600	1957
MEAN				45 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR KEYES - STATION NO. 05LL005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	3.56	1.21	0.527	0.367	0.052	0.103	0.928	---	---	---	1958
1959	---	---	0.509	3.03	1.47	0.660	0.253	0.021	0.269	0.658	---	---	---	1959
1960	---	---	0.170	37.9	5.01	1.76	0.418	0.134	0.140	0.518	---	---	---	1960
1961	---	---	0.529	1.46	1.57	0.634	0.040	0.067	0.348	0.578	---	---	---	1961
1962	---	---	0.114	11.2	2.49	1.53	0.511	0.614	0.417	0.498	0.542	0.182	---	1962
1963	0.003	0	3.42	5.58	1.42	2.40	2.24	0.163	0.120	0.380	0.427	---	---	1963
1964	---	---	0.265	3.41	3.04	0.657	0.318	0.198	0.247	0.179	0.143	0.097	---	1964
1965	0.108	0.153	0.199	21.2	3.76	2.06	2.15	1.22	2.60	0.977	0.666	0.548	2.95	1965
1966	0.302	0.193	4.39	9.13	4.02	1.43	0.270	0.254	0.367	0.099	0.489	0.355	1.78	1966
1967	0.268	0.209	0.240	16.8	3.60	0.682	0.223	0.117	0.094	0.197	0.205	0.146	1.88	1967
1968	0.098	0.208	1.80	2.26	1.12	0.487	0.319	0.740	0.689	0.496	0.533	0.158	0.743	1968
1969	0.158	0.242	0.329	28.1	3.60	1.61	8.46	2.26	0.587	1.06	1.00	0.383	3.97	1969
1970	0.194	0.294	0.319	34.0	24.9	3.53	1.55	0.397	0.467	0.738	0.907	0.337	5.63	1970
1971	0.311	0.260	0.321	6.89	2.77	10.4	9.22	1.23	0.437	2.18	1.41	0.521	3.00	1971
1972	0.253	0.209	3.35	16.5	4.82	1.29	0.542	0.270	0.157	0.386	0.454	0.116	2.35	1972
1973	0.156	0.197	1.45	1.41	1.60	1.07	0.389	0.682	2.43	1.34	0.708	0.441	0.991	1973
1974	0.253	0.280	0.421	32.9	16.9	3.00	0.380	0 148	0.170	0.433	0.485	0.265	4.62	1974
1975	0.305	0.304	0.348	11.3	9.47	1.99	0.361	2.91	6.23	2.09	1.34	0.610	3.10	1975
1976	0.640	0.614	0.549	31.4	2.67	1.75	0.377	0.045	0.024	0.246	0.251	0.130	3.18	1976
1977	0.144	0.157	0.551	1.37	1.98	1.40	2.70	0.703	2.17	1.34	0.786	0.387	1.15	1977
1978	0.383	0.220	0.275	10.5	3.31	1.24	0.286	0.170	0.246	0.356	0.348	0.266	1.46	1978
1979	0.231	0.172	0.300	34.0	24.6	3.97	1.09	0.154	0.133	0.366	0.333	0.206	5.46	1979
1980	0.173	0.196	0.241	4.61	0.576	0.246	0.170	0.994	0.627	0.793	0.821	0.297	0.807	1980
1981	0.144	1.26	1.04	1.55	0.988	0.969	0.293	0.307	0.167	0.647	0.629	0.259	0.682	1981
1982	0.081	0.089	0.189	5.80	2.10	0.901	1.79	0.369	0.229	0.601	0.456	0.184	1.07	1982
MEAN	0.221	0.277	0.888	13.4	5.16	1.85	1.39	0.569	0.779	0.723	0.616	0.294	2.49	MEAN

LOCATION - LAT 50 11 15 N DRAINAGE AREA, 1 750 km^2
LONG 99 06 10 W REGULATED SINCE 1960

WHITEMUD RIVER NEAR KEYES - STATION NO. 05LL005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	12.3 B ON MAR 29	---	---	1958
1959	---	5.38B ON APR 9	0 B ON MAR 1 *	---	1959
1960	---	130 ON APR 16	---	---	1960
1961	---	2.38 ON APR 24	0 ON JUL 8	---	1961
1962	---	37.1 ON APR 20	0 B ON DEC 26	---	1962
1963	---	21.8 B ON MAR 25	0 B ON JAN 1	---	1963
1964	---	12.7 B ON APR 10	---	---	1964
1965	---	95.1 ON APR 14	0.102B ON JAN 1	93 100	1965
1966	---	38.5 B ON APR 2	0.025 ON OCT 10	56 100	1966
1967	---	67.4 B ON APR 16	0.025 ON AUG 30	59 400	1967
1968	---	13.6 B ON MAR 30	0.068B ON JAN 8	23 500	1968
1969	123 AT 06:05 CST ON APR 14	114 ON APR 13	0.142B ON JAN 1	125 000	1969
1970	243 AT 20:36 CST ON APR 26 *	207 ON APR 27 *	0 B ON JAN 4	177 000	1970
1971	28.9 AT 20:26 CST ON JUL 13	24.9 ON JUL 13	0.255B ON MAR 2	94 700	1971
1972	---	33.4 ON APR 18	0.057 ON DEC 16	74 300	1972
1973	---	15.3 ON SEP 6	0.116 ON JUL 23	31 300	1973
1974	157 AT 10:31 CST ON APR 18	140 ON APR 18	0.093 ON SEP 21	146 000	1974
1975	66.3 AT 23:20 CST ON APR 30	58.6 ON MAY 1	0.181 ON JUL 14	97 900	1975
1976	---	66.5 ON APR 11	0.015 ON SEP 9	101 000	1976
1977	12.3 AT 10:00 CST ON JUL 13	11.8 ON JUL 13	0.125B ON JAN 20	36 100	1977
1978	---	26.0 B ON APR 10	0.068 ON SEP 11	46 000	1978
1979	199 AT 02:23 CST ON APR 23	181 ON APR 23	0.052 ON SEP 25	172 000	1979
1980	16.6 AT 20:08 CST ON APR 9	12.8 ON APR 9	0.057 ON AUG 2	25 500	1980
1981	---	8.07B ON FEB 21	0.012 ON AUG 30	21 500	1981
1982	26.3B AT 13:52 CST ON APR 16	16.8 B ON APR 15	0.075B ON JAN 18	33 600	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		78 600	MEAN

WHITEMUD RIVER NEAR NEEPAWA - STATION NO. 05LL011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	0.040	0.109	0.225	---	---	---	1960
1961	---	---	0.274	0.535	0.880	0.627	0.223	0.204	0.219	0.147	---	---	0.388	1961
1962	---	---	0.170	3.09	0.987	0.485	0.240	0.384	0.225	0.186	---	---	0.715	1962
1963	---	---	0.618	1.41	0.550	1.15	0.777	0.208	0.202	0.153	---	---	0.631	1963
1964	---	---	0.273	0.789	0.856	0.297	0.243	0.186	0.186	0.155	---	---	0.373	1964
1965	---	---	0.241	5.96	1.06	0.589	1.03	0.464	1.06	0.435	---	---	1.34	1965
1966	---	---	1.10	2.33	1.39	0.583	0.207	0.227	0.206	0.196	---	---	0.777	1966
1967	---	---	0.230	3.03	1.14	0.239	0.185	0.198	0.238	0.173	---	---	0.673	1967
1968	---	---	0.304	0.864	0.396	0.221	0.238	0.324	0.407	0.246	---	---	0.373	1968
1969	---	---	0.210	6.39	1.49	0.796	2.81	0.485	0.403	0.521	---	---	1.63	1969
1970	---	---	0.323	8.95	7.94	1.37	0.836	0.290	0.488	0.595	---	---	2.59	1970
1971	---	---	0.283	1.85	1.09	3.67	3.86	1.02	0.603	1.04	---	---	1.67	1971
1972	---	---	0.986	6.40	1.93	1.07	0.232	0.134	0.065	0.212	---	---	1.37	1972
1973	---	---	0.488	0.522	0.714	0.419	0.159	0.287	0.813	0.415	---	---	0.476	1973
1974	---	---	0.204	10.2	4.59	1.26	0.149	0.113	0.228	0.363	---	---	2.12	1974
1975	---	---	0.294	3.37	2.92	0.884	0.207	0.989	1.22	0.671	---	---	1.31	1975
1976	---	---	0.398	9.10	1.02	0.749	0.203	0.082	0.117	0.152	---	---	1.45	1976
1977	---	---	0.479	0.675	1.07	0.613	1.23	0.306	1.09	0.584	---	---	0.755	1977
1978	---	---	0.434	3.05	1.56	0.428	0.139	0.153	0.292	0.200	---	---	0.777	1978
1979	---	---	0.334	10.1	5.39	0.735	0.525	0.126	0.231	0.196	---	---	2.19	1979
1980	---	---	0.203	0.936	0.261	0.191	0.161	0.228	0.325	0.385	---	---	0.335	1980
1981	---	---	0.595	0.337	0.369	0.327	0.185	0.190	0.073	0.280	---	---	0.295	1981
1982	---	---	0.254	1.67	0.620	0.358	0.791	0.307	0.248	0.285	---	---	0.564	1982
MEAN	---	---	0.395	3.71	1.74	0.776	0.665	0.302	0.393	0.340	---	---	1.04	MEAN

LOCATION - LAT 50 13 34 N   DRAINAGE AREA, 803 km^2
LONG 99 27 17 W   REGULATED SINCE 1960

WHITEMUD RIVER NEAR NEEPAWA - STATION NO. 05LL011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	1.63 ON MAY 31	0.003 ON OCT 24	8 220	1961
1962	---	9.34 ON APR 22	0 ON SEP 9 *	15 100	1962
1963	---	4.08 ON JUN 27	0.119 ON OCT 19	13 400	1963
1964	---	2.00 ON MAY 6	0.105 ON JUN 3	7 880	1964
1965	---	19.7 ON APR 16	0 ON AUG 14	28 400	1965
1966	---	5.01 ON MAR 22	0.108 ON SEP 26	16 400	1966
1967	---	9.15 ON APR 18	0.125 ON JUN 9	14 300	1967
1968	---	1.23 ON APR 11	0.113 ON JUL 9	7 900	1968
1969	---	22.2 ON APR 16	0.201 ON JUN 20	34 500	1969
1970	---	48.7 ON APR 29 *	0.082 ON AUG 19	54 800	1970
1971	---	11.4 ON JUN 16	0.215 ON SEP 26	35 400	1971
1972	---	13.9 ON APR 16	0 ON JUL 12	28 900	1972
1973	---	3.65 ON SEP 4	0 ON JUL 14	10 100	1973
1974	---	41.1 ON APR 21	0.022 ON AUG 17	44 900	1974
1975	---	17.2 ON APR 29	0.007 ON JUL 9	27 800	1975
1976	---	29.4 ON APR 10	0.042 ON AUG 8	30 800	1976
1977	---	4.53 ON JUL 13	0.059 ON AUG 23	16 000	1977
1978	---	5.07 E ON APR 16	0.059 ON JUN 29	16 400	1978
1979	---	36.8 B ON APR 25	0.068 ON OCT 9	46 300	1979
1980	---	1.48 B ON APR 9	0.110 ON AUG 14	7 090	1980
1981	0.991 AT 19:38 CST ON MAR 17	0.898 ON MAR 31	0 ON AUG 26	6 250	1981
1982	4.54 B AT 13:57 CST ON APR 16 *	4.47 B ON APR 18	0.164B ON APR 4	11 900	1982
				21 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	13.1	3.62	1.61	1.63	0.185	0.209	1.12	---	---	---	1958
1959	---	---	0.573	7.39	4.86	1.96	0.935	0.430	1.06	2.95	---	---	2.51	1959
1960	---	---	0.538	71.9	31.9	9.27	2.44	1.18	0.731	0.853	---	---	14.7	1960
1961	---	---	1.20	5.22	5.33	1.98	0.416	0.069	0.349	0.644	---	---	1.89	1961
1962	---	---	0.160	17.1	7.15	3.37	0.652	1.96	3.31	2.20	---	---	4.45	1962
1963	---	---	7.32	12.9	6.48	12.6	8.04	2.53	1.15	1.43	---	---	6.53	1963
1964	---	---	0.138	10.9	7.94	3.31	1.88	0.930	1.88	1.34	---	---	3.51	1964
1965	---	---	0.238	27.0	10.3	7.51	4.39	2.11	4.54	3.48	---	---	7.37	1965
1966	---	---	2.97	24.7	14.7	6.49	2.05	1.08	0.777	0.991	---	---	6.67	1966
1967	---	---	0.798	26.3	14.4	5.98	1.53	0.271	0.087	0.516	---	---	6.19	1967
1968	---	---	2.21	7.53	5.72	2.95	1.22	2.53	3.31	2.42	---	---	3.47	1968
1969	---	---	0.377	51.7	22.8	9.56	17.3	6.19	2.79	3.78	---	---	14.2	1969
1970	---	---	0.691	56.6	116	24.2	9.97	3.59	3.67	3.50	---	---	27.2	1970
1971	---	---	0.629	18.9	10.6	18.6	17.2	4.22	2.33	6.31	---	---	9.81	1971
MEAN	---	---	1.37	25.1	18.7	7.81	4.98	1.95	1.87	2.25	---	---	8.35	MEAN

LOCATION - LAT 50 09 16 N   DRAINAGE AREA, 6 220 km^2
LONG 98 41 51 W   REGULATED SINCE 1960

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	39.1 B ON APR 1	---	---	1958
1959	---	14.9 ON APR 7	0.014B ON MAR 1	53 100	1959
1960	---	200 ON APR 17	0.481 ON SEP 27	311 000	1960
1961	---	8.50 ON MAY 6	0.023 ON AUG 19	40 100	1961
1962	---	65.1 ON APR 22	0.028 ON JUL 3	94 200	1962
1963	---	51.3 B ON MAR 29	0 B ON MAR 1 *	138 000	1963
1964	---	25.6 B ON APR 15	0.113B ON APR 1	74 500	1964
1965	---	126 B ON APR 17	0.170B ON MAR 1	156 000	1965
1966	---	58.3 ON APR 6	0.195 ON AUG 4	141 000	1966
1967	---	66.8 B ON APR 20	0.040 ON SEP 15	131 000	1967
1968	---	19.1 B ON APR 1	0.122 ON JUL 10	73 500	1968
1969	---	187 ON APR 15	0.377B ON MAR 1	301 000	1969
1970	---	326 ON APR 29 *	0.691B ON MAR 1	576 000	1970
1971	---	51.5 B ON APR 11	0.629B ON MAR 1	208 000	1971
				177 000	MEAN

B - ICE CONDITIONS   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO. 05PG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	2.31	5.00	10.1	5.85	2.87	1.50	1.02 R	0.770R	---	---	---	1960
1961	---	---	1.37	1.53	2.81	1.71	0.269	0.245	0.082	0.217	---	---	---	1961
1962	---	---	---	---	15.1 R	21.8 R	8.28 R	8.49	8.82	---	---	---	---	1962
1963	---	---	---	6.09 R	7.56	9.14	7.14	3.97	1.62	---	---	---	---	1963
1964	---	---	---	4.03 R	11.0	6.30	5.06	5.79	6.00	5.67	4.96	3.58	---	1964
1965	2.59	1.97	2.43	7.55	14.1	12.5	9.61	7.00	6.10	8.97	---	---	---	1965
1966	0.441	0.268	0.466	10.7	19.8	18.0	11.7	4.43	4.39	3.11	1.95	1.60	6.42	1966
1967	1.43	1.39	1.57	9.31	14.0	6.64 R	1.25 R	1.02	3.32	1.02	1.12	1.66	3.64R	1967
1968	1.21	1.18	1.14	5.16	5.22	6.58	8.15	4.19	3.34	4.13	6.35	4.39	4.26	1968
1969	3.27	2.67	2.62	5.15	8.74	2.77	3.02	2.50	1.92	1.78	3.98	2.48	3.41	1969
1970	0.440R	0.898R	0.774R	3.44 R	15.8 R	13.9 R	3.38 R	1.60 R	1.87 R	2.28 R	8.53 R	5.59 R	4.88R	1970
1971	3.38	1.84	1.88	7.90	12.5	5.69	1.59	0.685	0.131	0.093	4.10	2.81	3.56	1971
1972	1.76	1.15	1.32	3.43	3.79	2.67	0.475	0.381	0.550	0.830	5.17	2.03	1.96	1972
1973	1.53	1.24	0.777	0.104	0.084	0.339	1.23	2.47	5.35	10.1	10.5	6.99	3.40	1973
1974	4.03	2.97	2.53	10.6	34.4	28.4	4.27	1.75	6.04	6.59	4.01	2.76	9.04	1974
1975	2.30	2.02	2.08	4.30	11.1	7.19	5.72	1.47	1.92	2.01	0.977	0.979	3.52	1975
1976	1.09	1.03	1.09	5.82	8.52	4.39	1.59	0.213	0.243	0.160	0.096	0.084	2.03	1976
1977	0.081	0.073	0.079	0.069	0.531	6.42	5.75	2.81	3.24	5.52	5.43	6.61	3.07	1977
1978	5.55	3.89	2.90	6.42	19.7	8.72	2.00	0.760	0.781	1.98	1.95	1.57	4.69	1978
1979	1.08	1.02	1.18	3.09	14.4	10.4	1.22	0.347	0.326	1.74	1.97	1.91	3.24	1979
1980	1.51	1.16	0.932	1.28	2.39	1.12	0.332	0.229	1.71	2.59	2.77	2.28	1.53	1980
1981	1.56	1.28	0.276	0.074	0.085	0.454	1.34	0.940	1.77	5.26	5.35	3.75	1.85	1981
1982	2.08	1.39	1.49	3.47	10.3	7.25	2.46	1.49	1.13	3.86	3.08	2.09	3.35	1982
MEAN	1.96 R	1.52 R	1.46 R	4.75 R	10.5 R	8.18 R	3.86 R	2.36 R	2.68 R	3.27 R	4.02 R	2.95 R	3.76	MEAN

LOCATION - LAT 50 02 20 N DRAINAGE AREA, 883 km²
LONG 95 30 20 W REGULATED

R - REVISED SINCE JAN 1980

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO. 05PG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	11.9 ON MAY 4	---	---	1960
1961	---	6.60 ON APR 2	0.028E ON SEP 3	---	1961
1962	---	31.4 R ON JUN 4	---	---	1962
1963	---	9.85 ON JUN 12	---	---	1963
1964	---	12.7 ON MAY 15	---	---	1964
1965	---	16.1 ON MAY 17	---	---	1965
1966	---	21.1 ON MAY 7	0.210E ON MAR 23	203 000	1966
1967	---	15.2 E ON MAY 7	0.289 ON JUL 27	115 000R	1967
1968	---	13.4 ON JUN 17	1.13 E ON FEB 26	135 000	1968
1969	9.77 AT 07:38 CST ON MAY 5	9.74 ON MAY 5	1.03 ON JUN 4	108 000	1969
1970	19.8 R AT 08:36 CST ON JUN 1	19.7 R ON JUN 1	0.153R ON JAN 22	154 000R	1970
1971	14.8 AT 18:18 CST ON MAY 11	14.7 ON MAY 15	0.074 ON SEP 26	112 000	1971
1972	14.5 AT 19:44 CST ON OCT 31	12.6 ON NOV 1	0.278 ON AUG 11	61 900	1972
1973	12.9 AT 22:39 CST ON OCT 13	12.5 ON OCT 14	0.071 ON MAY 13	107 000	1973
1974	42.5 AT 15:00 CST ON MAY 24 *	42.2 ON MAY 24 *	0.665 ON AUG 9	285 000	1974
1975	12.0 AT 11:55 CST ON MAY 19	11.9 ON MAY 19	0.739 ON AUG 7	111 000	1975
1976	14.7 AT 14:01 CST ON APR 26	13.9 ON APR 27	0.079 ON NOV 23	64 100	1976
1977	15.3 AT 20:11 CST ON JUN 20	14.2 ON JUN 21	0.026 ON APR 29 *	96 700	1977
1978	25.8 AT 15:47 CST ON MAY 3	24.5 ON MAY 4	0.606 ON OCT 12	148 000	1978
1979	21.1 AT 17:47 CST ON MAY 17	20.0 ON MAY 18	0.293 ON SEP 10	102 000	1979
1980	5.57 AT 19:54 CST ON SEP 22	5.20 ON SEP 23	0.169 ON SEP 5	48 300	1980
1981	11.5 AT 15:55 CST ON OCT 13	10.3 ON OCT 14	0.027 ON MAY 2	58 400	1981
1982	13.3 AT 17:52 CST ON MAY 19	13.0 ON MAY 20	0.871 ON AUG 17	106 000	1982
MEAN				119 000R	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.883	1.81	0.924	0.094	0.048	0	0	0	---	---	0.468	1966
1967	---	---	0	3.08	0.433	0.021	0.004	0	0	0	---	---	0.435	1967
1968	---	---	0.703	0.136	0.023	0.007	0.008	0.021	0.171	0.045	---	---	0.140	1968
1969	---	---	0	12.1	1.06	0.213	2.02	0.179	0.014	0.018	---	---	1.92	1969
1970	---	---	0.008	13.6	3.29	0.462	0.107	0.026	0.015	0.028	---	---	2.16	1970
1971	---	---	0	1.71	0.726	2.98	3.19	0.100	---	---	---	---	---	1971
1972	---	---	1.27	5.27	0.686	0.290	0.179	0.031	0.001	0.001	---	---	0.955	1972
1973	---	---	0.042	0.023	0.036	0.029	0.092	0.039	0.049	0.111	---	---	0.053	1973
1974	---	---	0	13.1	3.12	0.486	0.007	0	0	0	---	---	2.06	1974
1975	---	---	0	4.76	1.35	0.550	0.024	0.105	0.221	0.118	---	---	0.879	1975
1976	---	---	0.010	14.1	0.424	0.249	0.057	0	0	0	---	---	1.82	1976
1977	---	---	0.004	0.004	0.019	0.008	0.041	0.001	0.021	0.073	---	---	0.021	1977
1978	---	---	0.320	2.89	0.554	0.233	0.007	0	0	0	---	---	0.494	1978
1979	---	---	0	8.08	2.17	0.421	0.006	0	0	0	---	---	1.32	1979
1980	---	---	0	0.054	0.001	0	0	0.400	0.043	0.011	---	---	0.064	1980
1981	---	---	0.264	0.027	0.016	0.009	0.001	0	0	0	---	---	0.040	1981
1982	---	---	0.148	2.85	0.105	0.077	0.290	0.057	0.001	0.070	---	---	0.443	1982
MEAN	---	---	0.215	4.92	0.879	0.361	0.358	0.056	0.034	0.030	---	---	0.830	MEAN

LOCATION - LAT 49 51 32 N DRAINAGE AREA, 668 km²
LONG 99 49 34 W NATURAL FLOW

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	9.20 E ON APR 1	0 B ON MAR 1 *	9 910	1966
1967	---	11.9 B ON APR 15	0 B ON MAR 1	9 220	1967
1968	---	3.82 B ON MAR 27	0 B ON MAR 1	2 950	1968
1969	---	77.9 ON APR 13	0 B ON MAR 1	40 700	1969
1970	---	58.3 ON APR 25	0.006E ON AUG 28	45 700	1970
1971	---	27.9 ON JUL 12	0 B ON MAR 1	---	1971
1972	---	25.7 B ON APR 10	0 B ON MAR 1	20 200	1972
1973	---	0.294 ON SEP 5	0 B ON MAR 1	1 110	1973
1974	---	80.4 ON APR 18 *	0 B ON MAR 1	43 600	1974
1975	---	32.0 ON APR 29	0 B ON MAR 1	18 600	1975
1976	---	56.9 B ON APR 7	0 ON AUG 3	38 600	1976
1977	---	0.343 ON JUL 14	0 B ON MAR 1	454	1977
1978	---	15.0 B ON APR 6	0 B ON MAR 1	10 400	1978
1979	---	71.4 B ON APR 21	0 B ON MAR 1	27 900	1979
1980	4.04 AT 04:41 CST ON AUG 22 *	3.65 ON AUG 22	0 B ON MAR 1	1 350	1980
1981	---	0.818B ON MAR 17	0 ON JUL 19	843	1981
1982	---	18.2 B ON APR 15	0 B ON MAR 1	9 380	1982
				17 600	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILLOW CREEK NEAR GIMLI - STATION NO. 05SB002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	2.69	0.799	0.144	0.001	0.034	0.008	0	---	---	0.900	1960
1961	---	---	0.064	0.781	0.118	0.009	0	0	0	0	---	---	0.240	1961
1962	---	---	0	0.513	0.238	0.239	0.017	1.61	0.081	0.028	---	---	0.245	1962
1963	---	---	0.422	5.31	1.14	3.77	---	---	---	---	---	---	2.63	1963
1964	---	---	0	0.343	---	---	---	---	---	---	---	---	---	1964
1966	---	---	0.078	0.980	1.56	0.030	0.016	0	0	0	---	---	0.665	1966
1967	---	---	0	3.60	1.38	0.013	0.001	0.001	0	0	---	---	1.24	1967
1968	---	---	0.081	0.149	0.075	0.041	0.039	0.233	0.063	0.088	---	---	0.086	1968
1969	---	---	0	3.31	1.22	0.387	0.029	0.021	0.003	0.003	---	---	1.22	1969
1970	---	---	0	1.57	0.905	0.172	0.017	0	0	0	---	---	0.659	1970
1971	---	---	0	0.956	0.209	0.024	0.115	0	0	0.004	---	---	0.294	1971
1972	---	---	0	1.45	0.089	0.005	0	0	0	0	---	---	0.380	1972
1973	---	---	0.100	0.010	0.003	0.401	---	---	---	---	---	---	0.127	1973
1974	---	---	0	11.2	8.47	0.778	---	---	---	---	---	---	5.10	1974
1975	---	---	0	0.816	0.153	0.050	---	---	---	---	---	---	0.252	1975
1976	---	---	0	7.00	0.726	0.099	---	---	---	---	---	---	1.93	1976
1977	---	---	0	0.041	0.028	0.079	---	---	---	---	---	---	0.037	1977
1978	---	---	0	6.83	1.03	0.228	---	---	---	---	---	---	2.00	1978
1979	---	---	0	3.88	6.03	1.46	---	---	---	---	---	---	2.84	1979
1980	---	---	0	0.431	0	0	---	---	---	---	---	---	0.106	1980
1981	---	---	0.080	0.174	0.006	0.006	---	---	---	---	---	---	0.066	1981
1982	---	---	0.079	3.37	0.436	0.288	---	---	---	---	---	---	1.03	1982
MEAN	---	---	0.041	2.52	1.17	0.392	0.024	0.190	0.016	0.012	---	---	1.05	MEAN

LOCATION - LAT 50 34 50 N DRAINAGE AREA, 156 km^2
LONG 97 02 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "OSIER CREEK" PRIOR TO 1979. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

WILLOW CREEK NEAR GIMLI - STATION NO. 05SB002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	6.40 B ON APR 16	0B ON MAR 1 *	9 480	1960
1961	---	1.73 ON APR 21	0B ON MAR 1	2 540	1961
1962	---	2.72 ON APR 24	0B ON MAR 1	2 580	1962
1963	---	12.3 B ON APR 8	0B ON MAR 1	27 800	1963
1964	---	---	0B ON MAR 1	---	1964
1966	---	4.73 ON MAY 4	0B ON MAR 1	7 010	1966
1967	---	11.7 ON APR 30	0B ON MAR 1	13 100	1967
1968	---	1.64 E ON MAR 30	0B ON MAR 1	910	1968
1969	---	10.7 ON APR 14	0B ON MAR 1	12 900	1969
1970	---	5.21 ON APR 18	0B ON MAR 1	6 950	1970
1971	---	3.17 B ON APR 11	0B ON MAR 1	3 100	1971
1972	---	8.61 ON APR 16	0B ON MAR 1	4 000	1972
1973	---	2.02 ON JUN 21	0B ON MAR 1	1 340	1973
1974	---	37.7 ON APR 20 *	0B ON MAR 1	53 800	1974
1975	---	3.11 ON APR 21	0B ON MAR 1	2 660	1975
1976	---	12.2 ON APR 17	0B ON MAR 1	20 400	1976
1977	---	0.864 ON JUN 18	0B ON MAR 1	386	1977
1978	---	15.3 ON APR 14	0B ON MAR 1	21 000	1978
1979	---	11.2 ON APR 28	0B ON MAR 1	30 000	1979
1980	---	1.82 B ON APR 8	0B ON MAR 1	1 120	1980
1981	0.420 AT 14:31 CST ON APR 10	0.408 ON APR 10	0B ON MAR 1	698	1981
1982	9.82 AT 00:40 CST ON APR 15 *	8.83 B ON APR 15	0B ON MAR 1	10 800	1982
				11 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON CREEK NEAR MCCREARY - STATION NO. 05LJ033

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	0.411R	0.076R	0.006R	0 R	0.061R	---	---	---	---	1959
1960	---	---	---	---	0.877R	0.125R	0.057R	0.061R	0.015R	---	---	---	---	1960
1961	---	---	---	---	0.366R	0.011R	0.002R	0.001R	0.008R	---	---	---	---	1961
1962	---	---	---	---	0.323R	0.246R	0.021R	0.063R	0.029R	---	---	---	---	1962
1963	---	---	---	---	---	0.599R	0.358R	0.066R	0.076R	---	---	---	---	1963
1964	---	---	---	---	0.527R	0.057R	0.019R	0.008R	0.007R	---	---	---	---	1964
1965	---	---	---	0.291R	0.687R	0.276R	0.045R	0.024R	0.498R	0.038R	---	---	---	1965
1966	---	---	0.037R	0.291R	0.598R	0.102R	0.042R	0.209R	0.020R	0.036R	---	---	0.167R	1966
1967	---	---	---	0.431R	0.842R	0.153R	0.023R	0.011R	0.002R	0.044R	---	---	---	1967
1968	---	---	---	0.278R	0.277R	0.148R	0.201R	0.140R	0.112R	0.059R	---	---	---	1968
1969	0.003R	0.006R	0.057R	0.518R	0.200R	0.891R	0.480R	0.078R	0.083R	0.101R	0.031R	0.010R	0.299R	1969
1970	0.008R	0.006R	0.006R	0.084R	1.88 R	0.449R	0.143R	0.021R	0.047R	0.063R	0.095R	0.015R	0.338R	1970
1971	0.020R	0.021R	0.021R	0.499R	0.153R	1.04 R	0.243R	0.055R	0.053R	0.348R	0.069R	0.022R	0.299R	1971
1972	0.008R	0.004R	0.006R	0.424R	0.364R	0.098R	0.024R	0.020R	0.017R	0.011R	0.006R	0.006R	0.120R	1972
1973	0.004R	0.003R	0.030R	0.135R	0.170R	0.259R	0.085R	0.095R	0.200R	0.233R	0.084R	0.047R	0.150R	1973
1974	0.044R	0.040R	0.037R	0.613R	0.807R	0.213R	0.070R	0.041R	0.043R	0.042R	0.017R	0.014R	0.233R	1974
1975	0.023R	0.019R	0.020R	0.276R	0.542R	0.331R	0.031R	0.285R	1.56 R	0.527R	0.087R	0.021R	0.443R	1975
1976	0.010R	0.013R	0.018R	0.866R	0.262R	0.211R	0.048R	0.018R	0.015R	0.011R	0.007R	0.004R	0.179R	1976
1977	0.005R	0.007R	0.006R	0.045R	0.102R	0.040R	0.469R	0.041R	0.418R	0.110R	0.027R	0.023R	0.154R	1977
1978	0.024	0.010	0.013	0.448	0.255	0.064	0.009	0.006	0.092	0.040	0.045	0.028	0.115	1978
1979	0.051	0.052	0.054	0.279	1.30	0.363	0.058	0.033	0.031	0.008	0.009	0.012	0.266	1979
1980	0.008R	0.006R	0.004R	0.196R	0.049R	0.024R	0.058R	0.427R	0.047R	0.061R	0.077R	0.018R	0.109R	1980
1981	0.005	0.005	0.025	0.038	0.130	0.191	0.020	0.007	0.013	0.048	---	---	0.059	1981
MEAN	0.016R	0.015R	0.024R	0.336R	0.506R	0.259R	0.109R	0.074R	0.150R	0.105R	0.046R	0.018R	0.209	MEAN

LOCATION - LAT 50 43 46 N
LONG 99 33 15 W

DRAINAGE AREA, 22.8 km²
NATURAL FLOW

DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

R - REVISED SINCE JAN 1980

WILSON CREEK NEAR MCCREARY - STATION NO. 05LJ033

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	---	0 R ON JUL 13 *	---	1959
1960	---	2.29 R ON MAY 26	0.012R ON SEP 12	---	1960
1961	---	1.12 R ON MAY 5	0 R ON JUL 2	---	1961
1962	---	3.31 R ON MAY 30	0 R ON JUN 14	---	1962
1963	---	4.56 R ON JUN 10	---	---	1963
1964	---	2.09 R ON MAY 10	---	---	1964
1965	---	3.96 R ON APR 29	0 R ON APR 1	---	1965
1966	---	2.31 R ON AUG 7	0.013R ON AUG 3	3 540R	1966
1967	---	1.61 R ON MAY 15	0 R ON SEP 16	---	1967
1968	---	1.25 R ON JUL 1	0.024R ON OCT 14	---	1968
1969	---	8.35 R ON JUN 27	0.012R ON SEP 15	6 310R	1969
1970	---	5.90 R ON MAY 8	0.006RB ON MAR 1	7 150R	1970
1971	---	9.51 R ON JUN 6	0.013R ON SEP 28	6 320R	1971
1972	---	2.83 R ON APR 26	0.001R ON JUN 30	2 530R	1972
1973	---	1.23 R ON JUN 20	0.003RB ON MAR 1	3 180R	1973
1974	---	4.11 R ON MAY 11	0.031RB ON APR 3	4 920R	1974
1975	---	16.6 R ON SEP 19 *	0 R ON JUL 26	9 370R	1975
1976	---	2.75 R ON APR 14	0.003RB ON MAR 21	3 780R	1976
1977	---	7.74 R ON JUL 11	0.001R ON AUG 24	3 250R	1977
1978	---	1.92 ON APR 27	0 ON JUL 10	2 430	1978
1979	10.6 AT 00:39 CST ON MAY 17 *	6.18 ON MAY 17	0.003 ON SEP 8	5 640	1979
1980	---	3.00 R ON AUG 21	0 R ON SEP 13	2 290R	1980
1981	---	0.698 ON JUN 15	0.002 ON AUG 16	1 240	1981
MEAN				4 430R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 1980

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	22.8	12.5	1.45	0.036	0.001	0	0	---	---	4.56	1979
1980	---	---	0.017	4.85	0.088	0.002	0	0.152	0.131	0.113	---	---	0.658	1980
1981	---	---	0.550	0.770	0.787	1.43	0.104	0.001	0.001	0.003	---	---	0.453	1981
1982	---	---	0.076	5.15	0.518	0.079	0.008	0.232	0.004	0.317	---	---	0.787	1982
MEAN	---	---	0.161	8.39	3.47	0.740	0.037	0.097	0.034	0.108	---	---	1.61	MEAN

LOCATION - LAT 51 09 30 N
LONG 100 20 00 W

DRAINAGE AREA, 668 km²
NATURAL FLOW

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	187 AT 03:53 CST ON APR 22 *	163 ON APR 22 *	0B ON MAR 1 *	96 500	1979
1980	---	13.0 B ON APR 7	0B ON MAR 1	13 900	1980
1981	8.26 AT 04:00 CST ON MAY 30	7.32 ON MAY 30	0 ON AUG 11	9 590	1981
1982	---	16.9 ON APR 18	0B ON MAR 1	16 700	1982
				34 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	0	17.3	20.7	0.856	2.12	0.879	0.112	0.012	---	---	5.25	1948
1949	---	---	0.085	5.66	0.968	2.37	0.515	0.115	0.003	0.013	---	---	1.28	1949
1950	---	---	0	5.73	4.88	4.42	6.18	0.394	0.016	0.276	---	---	2.73	1950
1951	---	---	0	9.10	5.22	0.666	0.284	0.029	0.062	0.383	---	---	1.94	1951
1952	---	---	0.005	12.2	0.868	0.194	0.016	0	0.541	0.099	---	---	1.71	1952
1953	---	---	---	11.0	9.79	24.1	4.30	0.507	0.367	2.63	1.05	---	---	1953
1954	---	---	0	10.1	7.40	13.1	9.82	0.139	0.895	1.88	0.344	---	5.38	1954
1955	---	---	0	14.7	10.8	6.87	0.721	0.037	0	0.025	---	---	4.10	1955
1956	---	---	0	10.4	19.0	6.32	4.99	0.323	0.161	0.124	---	---	5.15	1956
1957	---	---	0.269	21.6	4.73	0.785	0.126	0.013	0.002	0.026	---	---	3.40	1957
1958	---	---	0.300	1.92	0.166	0.056	0.037	0	0	0	---	---	0.306	1958
1959	---	---	0.365	1.35	0.710	1.63	0.946	0.005	0	0.027	---	---	0.625	1959
1960	---	---	0	16.3	7.94	2.17	0.089	0.005	0	0	---	---	3.28	1960
1961	---	---	0	0.001	0.052	0	0	0	0	0	---	---	0.007	1961
1962	---	---	0	4.28	0.749	0.347	0	0	0	0	---	---	0.662	1962
1963	---	---	1.19	3.47	0.551	2.94	0.598	0.035	0	0	---	---	1.09	1963
1964	---	---	0	7.03	3.28	0.003	0.116	0.004	0	0	---	---	1.30	1964
1965	---	---	0	8.84	3.56	2.05	0.411	0.056	3.27	0.586	---	---	2.32	1965
1966	---	---	0.330	19.0	8.67	1.14	0.808	0.344	0.004	0.002	---	---	3.75	1966
1967	---	---	0.003	16.4	11.3	0.634	0.008	0.006	0.002	0	---	---	3.51	1967
1968	---	---	1.28	2.57	0.177	0.039	0.008	0.013	0.005	0	---	---	0.506	1968
1969	---	---	0	10.0	0.464	2.28	4.06	0.193	0.003	0.004	---	---	2.11	1969
1970	---	---	0.013	16.5	18.4	2.13	2.62	0.598	0.084	0.328	---	---	5.07	1970
1971	---	---	0.040	14.3	1.52	7.30	0.824	0.172	0.003	0.294	---	---	3.01	1971
1972	---	---	2.61	15.0	2.75	0.208	0.031	0.004	0	0.002	---	---	2.54	1972
1973	---	---	0.066	0.285	0.132	0.510	0.046	0.020	0.713	2.26	---	---	0.505	1973
1974	---	---	0.079	32.9	28.3	1.43	0.126	0.005	0.007	0.014	---	---	7.82	1974
1975	---	---	0.010	16.4	5.99	3.70	0.125	0.305	8.75	2.66	---	---	4.68	1975
1976	---	---	0.001	25.2	1.83	11.6	0.707	0.022	0.005	0.001	---	---	4.84	1976
1977	---	---	0.002	0.390	0.188	0.030	0.910	0.146	1.19	0.643	---	---	0.436	1977
1978	---	---	0.070	11.0	2.30	0.392	0.025	0.003	0.002	0.030	---	---	1.70	1978
1980	---	---	0.030	6.44	0.196	0.082	0.128	0.139	0.167	0.073	---	---	0.891	1980
1981	---	---	0.576	1.04	0.917	1.91	0.145	0.004	0	0	---	---	0.570	1981
1982	---	---	0.057	6.08	0.756	0.138	0.053	0.320	0.058	0.319	---	---	0.959	1982
MEAN	---	---	0.224	10.4	5.45	3.01	1.23	0.142	0.483	0.374	0.697	---	2.53	MEAN

LOCATION - LAT 51 12 30 N　　DRAINAGE AREA, 925 km^2
LONG 100 10 45 W　　NATURAL FLOW

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	70.8 ON APR 25	0 B ON MAR 1 *	111 000	1948
1949	---	12.8 ON APR 12	0 E ON SEP 26	25 400	1949
1950	---	27.8 B ON APR 18	0 B ON MAR 1	57 800	1950
1951	---	35.4 ON APR 30	0 B ON MAR 1	41 100	1951
1952	---	43.9 B ON APR 8	0 B ON MAR 1	36 200	1952
1953	---	64.8 ON JUN 5	---	---	1953
1954	---	54.9 ON JUL 2	0 B ON MAR 1	114 000	1954
1955	---	41.6 ON MAY 6	0 B ON MAR 1	86 800	1955
1956	---	58.0 ON APR 25	0 B ON MAR 1	109 000	1956
1957	---	98.5 ON APR 26	0 B ON MAR 1	72 000	1957
1958	---	7.53 B ON APR 1	0 B ON MAR 1	6 470	1958
1959	---	8.75 ON JUN 19	0 B ON MAR 1	13 200	1959
1960	---	44.5 B ON APR 13	0 B ON MAR 1	69 500	1960
1961	---	0.227 ON MAY 17	0 B ON MAR 1	142	1961
1962	---	18.4 ON APR 20	0 B ON MAR 1	14 000	1962
1963	---	10.7 ON APR 9	0 B ON MAR 1	23 000	1963
1964	---	18.6 ON APR 13	0 B ON MAR 1	27 500	1964
1965	---	27.9 ON APR 14	0 B ON MAR 1	49 000	1965
1966	---	56.1 ON APR 3	0 B ON MAR 1	79 300	1966
1967	---	83.5 ON APR 28	0 E ON AUG 17	74 400	1967
1968	---	7.65 B ON MAR 29	0 B ON MAR 1	10 700	1968
1969	---	51.3 ON APR 14	0 B ON MAR 1	44 600	1969
1970	---	72.8 B ON APR 26	0.009B ON MAR 1	107 000	1970
1971	---	61.4 B ON APR 11	0.001 ON AUG 29	63 700	1971
1972	---	28.9 ON APR 18	0 ON AUG 31	53 800	1972
1973	---	7.65 ON OCT 5	0 B ON MAR 1	10 700	1973
1974	---	174 ON APR 20 *	0 ON AUG 20	165 000	1974
1975	105 AT 23:15 CST ON SEP 20 *	81.3 ON SEP 20	0.002 ON AUG 3	99 100	1975
1976	---	75.3 ON JUN 14	0 B ON MAR 1	102 000	1976
1977	---	8.41 ON SEP 27	0 B ON MAR 1	9 230	1977
1978	---	32.8 B ON APR 11	0 ON AUG 11	36 000	1978
1980	---	26.8 B ON APR 7	0 ON JUN 9	18 900	1980
1981	9.92 AT 03:37 CST ON MAY 31	8.94 ON MAY 31	0 ON AUG 9	12 100	1981
1982	---	17.1 A ON APR 19	0 B ON MAR 1	20 300	1982
				53 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	6.86	2.79	1.03	0.364	0.106	2.73	0.839	---	---	1.82	1965
1966	---	---	0.264	13.1	6.34	0.688	0.597	0.292	0.001	0	---	---	2.64	1966
1967	---	---	0	12.0	8.80	0.193	0.008	0	0	0	---	---	2.61	1967
1968	---	---	1.48	1.95	0.108	0.016	0.054	0.109	0.001	0	---	---	0.462	1968
1969	---	---	0	7.38	0.212	2.41	3.03	0.019	0.006	0.087	---	---	1.62	1969
1970	---	---	0.003	16.4	17.6	1.51	1.87	0.163	0.103	0.410	---	---	4.74	1970
1971	---	---	0.018	11.5	0.894	4.95	0.757	0.110	0.001	0.296	---	---	2.28	1971
1972	---	---	1.60	12.0	2.10	0.048	0	0	0	0	---	---	1.95	1972
1973	---	---	0.173	0.259	0.127	0.384	0.014	0.010	0.539	1.25	---	---	0.343	1973
1974	---	---	0.071	20.4	22.3	0.810	1.020	0.002	0.004	0.005	---	---	5.44	1974
1975	---	---	0	13.0	3.86	3.14	0.042	0.151	9.47	1.36	---	---	3.82	1975
1976	---	---	0.125	20.6	1.33	7.42	0.459	0.002	0	0	---	---	3.67	1976
1977	---	---	0	0.376	0.193	0.036	0.905	0.054	1.20	0.447	---	---	0.400	1977
1978	---	---	0.053	8.62	1.38	0.099	0.007	0	0.004	0.052	---	---	1.26	1978
MEAN	---	---	0.271	10.3	4.86	1.62	0.581	0.073	1.00	0.339	---	---	2.36	MEAN

LOCATION - LAT 51 07 35 N LONG 100 28 20 W DRAINAGE AREA, 648 km^2 NATURAL FLOW

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	23.3 ON APR 15	0B ON MAR 1 *	38 500	1965
1966	---	33.1 B ON APR 2	0 ON SEP 8	55 900	1966
1967	---	47.6 ON APR 27	0B ON MAR 1	55 200	1967
1968	---	10.2 B ON MAR 29	0B ON MAR 1	9 780	1968
1969	---	49.8 B ON APR 13	0B ON MAR 1	34 300	1969
1970	---	118 ON MAY 4	0B ON MAR 1	100 000	1970
1971	---	47.0 B ON APR 10	0 ON SEP 24	48 200	1971
1972	---	31.1 ON APR 21	0 ON JUN 25	41 200	1972
1973	---	6.51 ON OCT 4	0B ON MAR 1	7 270	1973
1974	---	135 ON MAY 23 *	0 ON AUG 4	115 000	1974
1975	136 AT 14:56 CST ON SEP 19 *	96.8 ON SEP 19	0B ON MAR 1	80 900	1975
1976	---	59.5 ON APR 10	0 ON AUG 21	77 700	1976
1977	---	7.67 ON SEP 27	0B ON MAR 1	8 460	1977
1978	---	18.2 B ON APR 10	0 ON JUL 29	26 700	1978
				49 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO. 05PF064

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	1 530	1 090	829	678	675	---	---	---	1956
1957	---	---	---	---	---	743	1 130	954	642	652	724	---	---	1957
1958	---	---	---	---	615	504	628	487	457	569	604	644	---	1958
1959	684	833	785	727	787	1 140	1 260	1 040	829	1 040	1 050	996	931	1959
1960	1 040	972	919	995	996	802	711	676	693	659	668	785	826	1960
1961	792	738	733	640	715	579	536	529	537	---	---	---	---	1961
1962	---	---	---	---	---	1 600	1 340	1 670	1 710	1 230	---	---	---	1962
1963	---	---	---	---	---	1 180	1 190	---	---	---	---	---	---	1963
MEAN	839	848	812	787	778	1 000	986	884	792	804	762	808	879	MEAN

LOCATION - LAT 50 22 00 N   DRAINAGE AREA, 126 000 km^2
LONG 95 20 20 W   REGULATED

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO. 05PF064

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	1 610 ON JUN 16	637E ON SEP 15	---	1956
1957	---	1 330 ON JUL 28	552 ON SEP 16	---	1957
1958	---	---	371 ON SEP 7 *	---	1958
1959	1 390 AT 04:00 CST ON JUL 18 *	1 390 ON JUL 17	634E ON JAN 8	29 400 000	1959
1960	---	1 180 ON JAN 23	578 ON NOV 4	26 100 000	1960
1961	869 AT 11:00 CST ON JAN 7	864 ON JAN 7	---	---	1961
1962	---	2 140E ON SEP 2 *	---	---	1962
1963	---	1 440 ON JUL 8	---	---	1963
MEAN				27 800 000	MEAN

E - ESTIMATED   * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF063

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1907	765	648	491	413	462	793	907	887	1 040	1 200	1 210	1 120	829	1907
1908	1 040	1 040	889	807	922	1 180	1 220	1 120	1 020	935	804	668	969	1908
1909	701	684	533	473	575	696	699	695	631	576	579	638	623	1909
1910	715	687	674	1 130	1 500	1 380	1 050	700	556	481	405	367	803	1910
1911	423	374	345	340	420	521	648	739	701	735	648	548	538	1911
1912	568	480	390	381	645	799	747	787	840	961	957	880	700	1912
1913	794	736	529	494	806	952	842	781	709	507	434	409	666	1913
1914	383	371	387	407	520	912	1 030	912	738	697	591	553	627	1914
1915	515	492	448	508	795	921	1 020	909	676	589	601	622	683	1915
1916	663	715	759	741	1 260	1 660	1 890	1 800	1 480	1 270	972	925	1 180	1916
1917	879	1 100	907	907	718	591	437	512	553	548	559	544	685	1917
1918	524	488	498	541	559	655	628	590	549	549	553	593	561	1918
1919	570	512	558	819	712	640	1 060	1 200	991	844	719	580	769	1919
1920	501	527	575	785	982	1 170	1 050	775	625	567	456	433	697	1920
1921	416	394	379	642	1 040	943	820	743	671	709	681	617	673	1921
1922	558	519	475	555	1 160	1 240	994	824	767	623	536	481	728	1922
1923	433	399	469	822	949	767	687	688	674	672	622	575	640	1923
1924	533	514	465	495	649	665	665	580	525	527	477	442	545	1924
1925	419	332	312	351	487	653	786	746	662	601	541	483	533	1925
1926	454	436	424	466	646	720	876	872	716	1 000	1 330	1 020	749	1926
1927	939	919	957	1 130	2 060	2 360	2 410	2 110	1 420	941	832	703	1 400	1927
1928	594	623	660	706	727	702	1 330	1 150	851	987	1 040	908	858	1928
1929	775	781	822	833	665	606	558	476	492	516	535	551	633	1929
1930	515	441	444	482	554	563	507	442	398	352	361	425	457	1930
1931	400	364	347	363	327	331	348	346	343	382	398	411	363	1931
1932	405	395	378	460	618	565	502	397	328	374	420	433	440	1932
1933	442	444	556	1 010	1 020	663	611	531	452	415	479	563	599	1933
1934	602	596	616	696	893	1 120	1 200	1 150	898	827	726	697	836	1934
1935	599	577	522	642	778	763	842	845	807	888	803	740	735	1935
1936	699	704	782	672	926	926	684	576	506	493	500	502	664	1936
1937	515	496	460	512	827	899	983	1 220	897	642	593	618	724	1937
1938	563	549	560	596	1 560	2 080	1 780	751	565	593	583	622	903	1938
1939	600	614	539	540	546	547	582	577	501	467	517	532	546	1939
1940	517	537	484	485	457	481	459	379	342	391	453	443	452	1940
1941	437	410	415	480	586	576	521	505	590	1 760	2 120	1 580	834	1941
1942	1 160	903	770	670	663	739	574	559	780	738	664	644	737	1942
1943	591	657	713	747	1 130	1 770	2 280	1 390	767	916	807	752	1 050	1943
1944	713	724	729	690	711	1 190	1 770	1 340	1 600	832	706	915	994	1944
1945	863	839	798	1 210	1 680	1 140	804	765	696	689	735	770	913	1945
1946	732	755	784	1 060	1 330	1 110	939	770	648	665	733	763	856	1946
1947	781	875	931	965	1 080	1 440	1 860	1 030	789	679	686	720	987	1947
1948	734	745	759	806	1 450	1 020	717	734	641	598	644	644	792	1948
1949	657	669	649	656	743	620	577	541	539	632	820	829	661	1949
1950	779	772	770	766	1 690	2 710	2 650	2 520	2 040	1 090	951	855	1 470	1950
1951	915	951	967	1 020	1 510	1 330	1 010	691	629	658	688	804	931	1951
1952	899	876	861	844	691	632	707	945	779	636	636	696	767	1952
1953	660	629	619	622	653	894	959	887	697	662	656	688	719	1953
1954	700	709	768	932	1 590	2 440	2 300	1 140	823	791	772	752	1 150	1954
1955	675	663	639	764	845	832	854	747	602	582	644	709	713	1955
1956	720	805	895	1 030	1 310	1 490	1 150	874	695	635	638	674	909	1956
1957	671	692	667	667	824	697	1 120	919	593	591	669	723	738	1957
1958	762	749	719	634	590	480	606	465	406	537	578	618	595	1958
1959	658	813	763	703	748	1 160	1 310	1 060	777	1 000	1 030	1 010	920	1959
1960	1 000	957	903	981	988	791	699	644	663	635	650	764	806	1960
1961	756	713	668	609	698	551	497	426	433	500	553	651	587	1961
1962	657	660	611	656	797	1 540	1 260	1 600	1 650	1 210	849	919	1 040	1962
1963	954	973	920	966	985	1 060	1 180	1 090	886	831	886	940	973	1963
1964	934	933	859	834	992	852	1 420	881	1 250	2 190	1 660	1 210	1 170	1964
1965	1 050	1 070	1 190	1 380	1 500	1 680	1 500	881	857	1 120	1 730	1 270	1 270	1965
1966	1 340	1 360	1 420	1 710	2 260	2 260	1 800	872	937	891	930	933	1 390	1966
1967	867	880	824	843	773	729	727	824	654	671	786	871	787	1967
1968	851	844	799	650	580	1 100	1 770	1 540	1 440	1 560	1 890	1 520	1 210	1968
1969	1 430	1 510	1 500	1 460	1 170	1 320	1 290	1 280	1 350	1 320	1 320	1 310	1 350	1969
1970	1 230	1 200	1 300	1 240	1 620	2 100	1 900	975	940	1 110	1 500	1 610	1 410	1970
1971	1 560	1 490	1 460	1 490	1 410	1 190	940	726	600	714	1 610	1 820	1 250	1971
1972	1 500	1 460	1 490	1 530	1 400	853	610	620	716	729	893	910	1 060	1972
1973	963	999	945	590	456	401	347	496	817	1 090	1 420	1 320	819	1973
1974	1 260	1 270	1 250	1 470	2 200	2 650	2 360	1 270	1 190	1 130	1 080	1 260	1 530	1974
1975	1 190	1 330	1 410	1 410	1 380	988	1 270	727	629	604	766	891	1 050	1975
1976	979	938	959	1 020	720	521	405	382	351	372	403	404	620	1976
1977	474	562	556	272	148	122	194	217	444	1 160	1 340	1 420	576	1977
1978	1 340	1 230	1 200	1 300	977	1 060	1 350	998	1 250	1 040	941	990	1 150	1978
1979	996	957	878	989	1 620	1 600	890	577	649	771	702	846	963	1979
1980	985	961	1 080	1 030	735	369	259	269	308	405	538	735	629	1980
1981	818	846	619	368	264	283	507	317	407	574	639	633	530	1981
1982	686	797	660	606	766	1 090	1 000	916	771	985	1 070	1 330	884	1982
MEAN	762	760	742	787	948	1 020	1 020	846	766	777	808	793	837	MEAN

LOCATION - LAT 50 13 30 N DRAINAGE AREA, 126 000 km²
LONG 95 34 15 W REGULATED SINCE 1907

DATA CONTRIBUTED BY -
CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF063

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1907	---	1 250 ON OCT 22	408 ON APR 5	26 200 000	1907
1908	---	1 250 ON JUN 27	614 ON DEC 27	30 700 000	1908
1909	---	807 ON JAN 13	456 ON APR 17	19 700 000	1909
1910	---	1 510 ON MAY 7	351 ON DEC 24	25 300 000	1910
1911	---	767 ON OCT 12	306 ON MAR 27	17 000 000	1911
1912	---	1 030 ON OCT 31	337 ON MAR 25	22 100 000	1912
1913	---	985 ON JUN 13	368 ON DEC 27	21 000 000	1913
1914	---	1 060 ON JUL 16	331 ON FEB 22	19 800 000	1914
1915	---	1 060 ON JUL 19	411 ON APR 4	21 600 000	1915
1916	---	1 970 ON JUL 24	592 ON JAN 1	37 300 000	1916
1917	---	1 180 ON FEB 13	402 ON JUL 22	21 600 000	1917
1918	---	668 ON JUN 20	456 ON MAR 3	17 700 000	1918
1919	---	1 290 ON JUL 28	442 ON MAR 9	24 300 000	1919
1920	---	1 200 ON JUN 7	405 E ON NOV 28	22 100 000	1920
1921	---	1 100 ON MAY 25	379 E ON MAR 1	21 200 000	1921
1922	---	1 420 ON MAY 25	447 ON APR 2	23 000 000	1922
1923	---	1 010 ON MAY 9	396 E ON FEB 5	20 400 000	1923
1924	---	725 ON JUN 5	419 ON DEC 19	17 200 000	1924
1925	---	813 ON JUL 4	275 ON APR 5	16 800 000	1925
1926	---	1 440 ON NOV 4	357 ON MAR 21	23 600 000	1926
1927	---	2 450 ON JUL 19	623 ON DEC 31	44 200 000	1927
1928	---	1 450 ON JUL 23	527 ON FEB 5	27 100 000	1928
1929	---	900 ON MAR 25	416 ON SEP 15	20 000 000	1929
1930	---	665 ON MAY 26	294 ON NOV 2	14 400 000	1930
1931	---	447 ON DEC 3	274 ON JUN 28	11 500 000	1931
1932	---	668 ON MAY 10	286 ON SEP 25	13 900 000	1932
1933	---	1 250 ON APR 23	362 ON OCT 8	18 900 000	1933
1934	---	1 230 ON JUL 15	561 ON JAN 1	26 400 000	1934
1935	---	1 020 ON JUL 29	430 ON MAR 10	23 200 000	1935
1936	---	1 090 ON MAY 25	433 ON OCT 18	21 000 000	1936
1937	---	1 270 ON AUG 7	416 ON MAR 28	22 800 000	1937
1938	---	2 260 ON MAY 30	496 ON APR 3	28 500 000	1938
1939	---	648 ON FEB 20	422 ON OCT 15	17 200 000	1939
1940	---	558 ON FEB 11	317 ON SEP 7	14 300 000	1940
1941	---	2 190 ON NOV 6	345 ON MAR 29	26 300 000	1941
1942	---	1 250 ON JAN 2	507 ON AUG 25	23 300 000	1942
1943	---	2 390 ON JUL 19	530 ON JAN 9	33 000 000	1943
1944	---	1 920 ON JUL 17	620 ON OCT 29	31 400 000	1944
1945	---	1 790 ON MAY 9	578 ON OCT 27	28 800 000	1945
1946	---	1 390 ON MAY 17	566 ON SEP 7	27 000 000	1946
1947	---	2 040 ON JUL 2	597 ON OCT 11	31 100 000	1947
1948	---	1 720 ON MAY 19	552 ON OCT 13	25 000 000	1948
1949	---	900 ON NOV 20	467 ON SEP 3	20 900 000	1949
1950	---	2 780 ON JUN 19	711 ON APR 13	46 300 000	1950
1951	---	1 720 ON MAY 22	575 ON SEP 15	29 400 000	1951
1952	---	1 000 ON AUG 17	524 ON JUN 28	24 300 000	1952
1953	---	1 030 ON JUN 12	580 ON MAR 8	22 700 000	1953
1954	---	2 800 ON JUN 30 *	660 ON JAN 8	36 100 000	1954
1955	---	1 050 ON JUN 4	530 ON SEP 10	22 500 000	1955
1956	---	1 590 ON JUN 16	569 ON SEP 20	28 800 000	1956
1957	---	1 370 ON JUL 29	462 ON SEP 15	23 300 000	1957
1958	---	810 ON FEB 27	261 ON SEP 6	18 800 000	1958
1959	---	1 420 ON JUL 17	609 ON JAN 6	29 000 000	1959
1960	---	1 140 ON APR 29	544 ON NOV 6	25 500 000	1960
1961	---	827 ON JAN 8	323 ON AUG 28	18 500 000	1961
1962	---	2 110 ON SEP 2	569 ON MAR 13	32 700 000	1962
1963	---	1 460 ON JUL 8	716 ON SEP 29	30 700 000	1963
1964	---	2 520 ON OCT 19	657 ON JUN 14	37 000 000	1964
1965	---	1 880 ON NOV 6	762 ON SEP 7	40 100 000	1965
1966	---	2 410 ON MAY 23	759 ON AUG 24	43 900 000	1966
1967	---	943 ON JAN 2	552 ON OCT 8	24 800 000	1967
1968	---	1 990 ON AUG 1	524 ON MAY 31	38 000 000	1968
1969	---	1 750 ON JUL 2	900 ON MAY 29	42 700 000	1969
1970	---	2 190 ON JUN 17	756 ON AUG 20	44 600 000	1970
1971	---	2 000 ON DEC 10	498 ON SEP 21	39 400 000	1971
1972	---	1 670 ON MAY 4	507 ON JUL 29	33 400 000	1972
1973	---	1 460 ON NOV 13	280 ON JUL 3	25 800 000	1973
1974	---	2 750 ON JUL 1	971 ON NOV 12	48 300 000	1974
1975	---	1 510 ON JUL 16	547 ON OCT 26	33 100 000	1975
1976	---	1 080 ON APR 16	206 ON DEC 19	19 600 000	1976
1977	---	1 500 ON DEC 13	51.0 ON JUN 12 *	18 200 000	1977
1978	---	1 570 ON JUL 17	852 ON MAY 23	36 100 000	1978
1979	---	1 790 ON MAY 26	456 ON AUG 13	30 400 000	1979
1980	---	1 080 ON MAR 12	91.0 ON SEP 2	19 900 000	1980
1981	---	915 ON JAN 18	149 ON JUN 8	16 400 000	1981
1982	---	1 430 ON DEC 20	515 ON JAN 2	27 900 000	1982
MEAN				26 400 000	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

E - ESTIMATED

WINNIPEG RIVER BELOW FOURTH FALLS , SEVEN SISTERS - STATION NO. 05PF015

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	---	---	322	203	253	278	282	270	---	---	1917
1918	---	244	246	272	286	375	340	306	276	274	263	281	---	1918
1919	292	232	284	407	417	354	702	833	654	---	---	---	---	1919
MEAN	292	238	265	340	352	350	415	464	403	278	267	281	---	MEAN

LOCATION - LAT 50 07 15 N
LONG 96 00 40 W REGULATED

WINNIPEG RIVER, HEAD OF GRAND DU BONNET FALLS - STATION NO. 05PF044

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1911	---	---	---	---	---	---	---	---	---	750	641	546	---	1911
1912	529	426	---	---	---	---	---	---	---	---	---	---	---	1912
MEAN	529	426	---	---	---	---	---	---	---	750	641	546	---	MEAN

LOCATION - LAT 50 26 20 N
LONG 95 58 30 W   REGULATED

WOODY RIVER AT BOWSMAN - STATION NO. 05LE002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.972	3.11	0.959	0.220	0.425	0.283	---	---	1915
1916	---	---	---	5.10	8.63	23.9	7.11	1.29	0.584	1.80	1.27	---	6.19	1916
1917	---	---	---	1.59	21.6	8.03	9.69	1.03	0.657	0.200	---	---	---	1917
1918	---	---	---	3.71	3.44	11.5	12.1	2.45	0.586	0.594	0.939	---	4.42	1918
1919	---	---	---	6.15	3.66	1.08	2.16	0.705	2.28	---	---	---	---	1919
MEAN	---	---	---	4.14	9.33	9.10	6.83	1.29	0.865	0.755	0.831	---	5.31	MEAN

LOCATION - LAT 52 13 00 N   DRAINAGE AREA, 1 660 km²
LONG 101 13 00 W   NATURAL FLOW

WOODY RIVER AT BOWSMAN - STATION NO. 05LE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	---	---	---	1915
1916	---	38.5 ON JUN 11	0.227 ON SEP 8 *	130 000	1916
1917	---	43.3 ON MAY 9 *	---	---	1917
1918	---	31.4 ON JUL 2	0.227 ON SEP 26	93 200	1918
1919	---	11.6B ON APR 8	---	---	1919
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		112 000	MEAN

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	10.7	28.9	51.4	14.1	4.96	10.9	4.43	---	---	---	1954
1955	---	---	---	23.0	26.5	4.47	1.98	0.181	0.044	0.174	---	---	---	1955
1956	---	---	---	9.20	31.3	12.9	0.84	1.62	0.508	0.946	---	---	---	1956
1957	---	---	0.203	15.8	17.2	4.69	1.03	0.422	1.07	1.08	---	---	5.17	1957
1958	---	---	0.059	2.90	2.30	1.83	9.39	1.07	0.206	0.502	---	---	2.30	1958
1959	---	---	0.742	2.82	5.46	5.11	5.89	0.271	2.54	1.92	---	---	3.09	1959
1960	---	---	0.120	14.3	14.5	11.0	2.69	1.20	0.152	0.023	---	---	5.45	1960
1961	---	---	0	0.677	1.43	0.689	0.088	0	0.023	0.024	---	---	0.365	1961
1962	---	---	0	3.13	5.78	0.997	0.117	0.017	0.732	1.62	---	---	1.55	1962
1963	---	---	0.197	8.19	5.13	5.66	0.872	0.201	0.168	0.085	---	---	2.55	1963
1964	---	---	0	2.90	9.70	1.32	0.956	2.03	6.21	4.06	---	---	3.40	1964
1965	---	---	0.325	10.9	15.4	26.0	5.60	2.04	3.00	4.39	---	---	8.45	1965
1966	---	---	0.625	16.1	15.0	16.3	16.8	5.43	4.17	1.98	---	---	9.52	1966
1967	---	---	0.573	2.40	39.7	14.0	1.02	1.03	0.330	0.264	---	---	7.54	1967
1968	---	---	0.763	3.47	2.06	4.90	3.64	10.6	3.67	0.022	---	---	3.74	1968
1969	---	---	0.782	14.6	6.24	3.05	3.60	1.55	0.491	5.94	---	---	4.52	1969
1970	---	---	0.340	10.5	24.5	10.4	10.5	2.20	0.315	2.45	---	---	7.66	1970
1971	---	---	0.513	20.2	10.1	7.83	1.52	0.592	0.098	2.83	---	---	6.40	1971
1972	---	---	0.581	27.2	30.3	4.49	3.61	0.916	0.250	0.467	---	---	9.47	1972
1973	---	---	2.20	4.00	5.17	19.0	7.04	1.25	0.020	1.17	---	---	5.05	1973
1974	---	---	0.586	23.7	40.1	11.3	1.53	1.27	2.61	2.93	---	---	10.5	1974
1975	---	---	0.415	14.1	17.8	15.0	5.30	2.31	4.47	5.90	---	---	8.12	1975
1976	---	---	0.486	15.0	2.07	13.8	7.43	0.884	0.108	0.095	---	---	5.04	1976
1977	---	---	0.163	5.07	3.23	1.64	1.74	4.61	9.32	6.34	---	---	4.00	1977
1978	---	---	0.508	13.8	9.42	2.84	2.81	0.905	2.10	3.50	---	---	4.46	1978
1979	---	---	0.388	20.1	32.5	22.7	2.07	0.142	0.050	0.510	---	---	9.75	1979
1980	---	---	0.022	8.02	1.76	0.390	2.63	6.17	8.19	5.26	---	---	4.04	1980
1981	---	---	0.906	9.20	8.09	1.92	3.66	4.08	0.435	8.20	---	---	4.66	1981
1982	---	---	0.202	4.90	6.05	8.09	18.1	4.99	1.12	4.50	---	---	6.11	1982
MEAN	---	---	0.453	11.2	14.7	9.78	5.01	2.20	2.23	2.50	---	---	5.50	MEAN

LOCATION - LAT 52 15 30 N   DRAINAGE AREA, 2 110 km²
LONG 101 08 15 W   NATURAL FLOW

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LB004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	117 ON JUN 18	---	---	1954
1955	---	56.4 B ON APR 5	---	---	1955
1956	---	53.0 ON MAY 5	---	---	1956
1957	---	41.3 ON APR 25	0.198 ON AUG 13	110 000	1957
1958	---	24.0 ON JUL 7	0.057B ON MAR 1	48 700	1958
1959	---	14.0 ON JUL 1	0 B ON MAR 1 *	65 400	1959
1960	67.8 ON APR 15	58.0 ON APR 15	0.006 ON OCT 29	116 000	1960
1961	---	1.87 ON MAY 15	0 B ON MAR 1	7 790	1961
1962	---	19.8 B ON APR 20	0 B ON MAR 1	32 800	1962
1963	---	32.6 B ON APR 8	0 B ON MAR 1	53 900	1963
1964	---	17.0 ON MAY 15	0 B ON MAR 1	71 900	1964
1965	- -	68.5 ON JUN 5	0.113 ON SEP 15	179 000	1965
1966	---	48.7 B ON APR 7	0.292B ON MAR 1	201 000	1966
1967	---	74.8 B ON MAY 7	0 ON JUL 29	159 000	1967
1968	---	20.1 ON AUG 1	0.040B ON MAR 1	79 200	1968
1969	---	51.5 B ON APR 13	0 ON AUG 28	95 700	1969
1970	---	45.3 ON MAY 24	0.042 ON SEP 18	162 000	1970
1971	---	97.7 ON APR 17	0 ON AUG 18	136 000	1971
1972	---	153 ON APR 22 *	0 ON SEP 23	201 000	1972
1973	45.6 AT 18:02 CST ON JUN 6	43.6 ON JUN 6	0 B ON MAR 1	107 000	1973
1974	---	140 B ON APR 21	0.493 ON AUG 11	221 000	1974
1975	66.5 AT 20:20 CST ON APR 22	61.2 ON APR 22	0.261B ON APR 5	172 000	1975
1976	70.5 AT 06:00 CST ON APR 10	63.4 ON APR 10	0 ON SEP 30	107 000	1976
1977	14.4 AT 14:11 CST ON SEP 26	14.2 ON SEP 26	0 B ON MAR 1	84 600	1977
1978	59.5 AT 00:36 CST ON APR 19	50.4 ON APR 19	0.190B ON MAR 12	94 400	1978
1979	126 AT 10:55 CST ON APR 25 *	113 ON APR 25	0 ON AUG 29	206 000	1979
1980	---	31.5 B ON APR 14	0 B ON MAR 1	85 400	1980
1981	16.5 AT 23:55 CST ON MAY 2	16.3 ON MAY 3	0 ON SEP 5	98 700	1981
1982	74.8 AT 02:59 CST ON JUL 19	67.1 ON JUL 19	0 B ON MAR 1	130 000	1982
				116 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

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POOR

QUALITY

ORIGINAL